

REQUEST FOR PROPOSALS

FEASIBILITY STUDY FOR THE

BAJA CALIFORNIA WIND POWER PROJECT IN MEXICO

Submission Deadline: **6:00 PM**

LOCAL TIME (MEXICALI, MEXICO)

SEPTEMBER 28, 2011

Submission Place: **David Muñoz Andrade**
Director General
Comisión Estatal de Energía de Baja California
Ave. Pioneros 1060, Centro Cívico y Comercial, Segundo Nivel
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Mexico
Phone: (52-686) 555-6742

SEALED PROPOSALS SHALL BE CLEARLY MARKED AND RECEIVED PRIOR TO THE TIME AND DATE SPECIFIED ABOVE. PROPOSALS RECEIVED AFTER SAID TIME AND DATE WILL NOT BE ACCEPTED OR CONSIDERED.

REQUEST FOR PROPOSALS

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SECTION 1: INTRODUCTION

The U.S. Trade and Development Agency (“USTDA”) has provided a grant in the amount of US\$374,000 to the State Government of Baja California (Gobierno del Estado de Baja California), acting through the State Energy Commission (Comisión Estatal de Energía de Baja California) (the “Grantee”), of Mexico (the “Host Country”) in accordance with a grant agreement dated June 29, 2011 (the “Grant Agreement”) to fund a feasibility study (“Feasibility Study”) for the Baja California Wind Power Project (the “Project”). This Feasibility Study will provide the Grantee with recommendations to enable the supply of 100 MW of wind power to state government office buildings and facilities in the State of Baja California. The Grant Agreement is attached at Annex 4 for reference. The Grantee is soliciting technical proposals from qualified U.S. firms to provide expert consulting services to perform the Feasibility Study.

1.1 BACKGROUND SUMMARY

The State Government of Baja California is committed to diversifying its energy resources to meet its growing demand for energy through the use of renewable energy sources. Meanwhile, at a national level, Mexico has recently taken steps to encourage the use of renewable energy, including a regulatory policy that allows states, municipalities, and private companies to develop their own renewable energy sources. Under this regulatory policy, the Grantee is planning to issue a tender for the supply of 100 MW of wind power for state government office buildings and facilities.

The Feasibility Study will allow the Grantee to assess available wind power resources, verify the power demand profile, evaluate the financial value of wind power in comparison to existing power supply arrangements, and draft legal documents and agreements.

The Project supports the Energy and Climate Partnership of the Americas, the U.S.-Mexico Bilateral Framework on Clean Energy and Climate Change, and Mexico’s National Infrastructure Program.

A background Definitional Mission is provided for reference in Annex 2.

1.2 OBJECTIVE

The objective of the Feasibility Study is to enable the supply of 100 MW of wind power to state government office buildings and facilities in the State of Baja California in Mexico.

The Terms of Reference (“TOR”) for this Feasibility Study are attached as Annex 5.

1.3 PROPOSALS TO BE SUBMITTED

Technical proposals are solicited from interested and qualified U.S. firms. The administrative and technical requirements as detailed throughout the Request for Proposals ("RFP") will apply. Specific proposal format and content requirements are detailed in Section 3.

The amount for the contract has been established by a USTDA grant of US\$374,000. **The USTDA grant of US\$374,000 is a fixed amount. Accordingly, COST will not be a factor in the evaluation and therefore, cost proposals should not be submitted.** Upon detailed evaluation of technical proposals, the Grantee shall select one firm for contract negotiations.

1.4 CONTRACT FUNDED BY USTDA

In accordance with the terms and conditions of the Grant Agreement, USTDA has provided a grant in the amount of US\$374,000 to the Grantee. The funding provided under the Grant Agreement shall be used to fund the costs of the contract between the Grantee and the U.S. firm selected by the Grantee to perform the TOR. The contract must include certain USTDA Mandatory Contract Clauses relating to nationality, taxes, payment, reporting, and other matters. The USTDA nationality requirements and the USTDA Mandatory Contract Clauses are attached at Annexes 3 and 4, respectively, for reference.

SECTION 2: INSTRUCTIONS TO OFFERORS

2.1 PROJECT TITLE

The Project is called the "Baja California Wind Power Project."

2.2 DEFINITIONS

Please note the following definitions of terms as used in this RFP:

The term "Request for Proposals" means this solicitation of a formal technical proposal, including qualifications statement.

The term "Offeror" means the U.S. firm, including any and all subcontractors, which responds to the RFP and submits a formal proposal and which may or may not be successful in being awarded this procurement.

2.3 DEFINITIONAL MISSION REPORT

USTDA sponsored a Definitional Mission to address technical, financial, sociopolitical, environmental, and other aspects of the proposed Project. A copy of the report is attached at Annex 2 for background information only. Please note that the TOR referenced in the report are included in this RFP as Annex 5.

2.4 EXAMINATION OF DOCUMENTS

Offerors should carefully examine this RFP. It will be assumed that Offerors have done such inspection and that through examinations, inquiries, and investigation they have become familiarized with local conditions and the nature of problems to be solved during the execution of the Feasibility Study.

Offerors shall address all items as specified in this RFP. Failure to adhere to this format may disqualify an Offeror from further consideration.

Submission of a proposal shall constitute evidence that the Offeror has made all the above mentioned examinations and investigations, and is free of any uncertainty with respect to conditions which would affect the execution and completion of the Feasibility Study.

2.5 PROJECT FUNDING SOURCE

The Study will be funded under a grant from USTDA. The total amount of the grant is not to exceed US\$374,000.

2.6 RESPONSIBILITY FOR COSTS

Offeror shall be fully responsible for all costs incurred in the development and submission of the proposal. Neither USTDA nor the Grantee assumes any obligation as a result of the issuance of this RFP, the preparation or submission of a proposal by an Offeror, the evaluation of proposals, final selection, or negotiation of a contract.

2.7 TAXES

Offerors should submit proposals that note that in accordance with the USTDA Mandatory Contract Clauses, USTDA grant funds shall not be used to pay any taxes, tariffs, duties, fees, or other levies imposed under laws in effect in the Host Country.

2.8 CONFIDENTIALITY

The Grantee will preserve the confidentiality of any business proprietary or confidential information submitted by the Offeror, which is clearly designated as such by the Offeror, to the extent permitted by the laws of the Host Country.

2.9 ECONOMY OF PROPOSALS

Proposal documents should be prepared simply and economically, providing a comprehensive yet concise description of the Offeror's capabilities to satisfy the requirements of the RFP. Emphasis should be placed on completeness and clarity of content.

2.10 OFFEROR CERTIFICATIONS

The Offeror shall certify (a) that its proposal is genuine and is not made in the interest of, or on behalf of, any undisclosed person, firm, or corporation, and is not submitted in conformity with, and agreement of, any undisclosed group, association, organization, or corporation; (b) that it has not directly or indirectly induced or solicited any other Offeror to put in a false proposal; (c) that it has not solicited or induced any other person, firm, or corporation to refrain from submitting a proposal; and (d) that it has not sought by collusion to obtain for itself any advantage over any other Offeror or over the Grantee or USTDA or any employee thereof.

2.11 CONDITIONS REQUIRED FOR PARTICIPATION

Only U.S. firms are eligible to participate in this tender. However, U.S. firms may utilize subcontractors from the Host Country for up to 20 percent of the amount of the USTDA grant for specific services from the TOR identified in the subcontract. USTDA's nationality requirements, including definitions, are detailed in Annex 3.

2.12 LANGUAGE OF PROPOSAL

All proposal documents shall be prepared and submitted in English and Spanish.

2.13 PROPOSAL SUBMISSION REQUIREMENTS

The Cover Letter in the proposal must be addressed to:

David Muñoz Andrade
Director General
Comisión Estatal de Energía de Baja California
Ave. Pioneros 1060, Centro Cívico y Comercial, Segundo Nivel
C.P. 21000
Mexicali, Baja California
Mexico
Phone: (52-686) 555-6742

An original in English, an original in Spanish, one (1) copy in English, and three (3) copies in Spanish of your proposal must be received at the above address no later than 6:00 PM, on September 28, 2011.

Proposals may be either sent by mail, overnight courier, or hand-delivered. Whether the proposal is sent by mail, courier or hand-delivered, the Offeror shall be responsible for actual delivery of the proposal to the above address before the deadline. Any proposal received after the deadline will be returned unopened. The Grantee will promptly notify any Offeror if its proposal was received late.

Upon timely receipt, all proposals become the property of the Grantee.

2.14 PACKAGING

Each original and each copy of the proposal must be sealed to ensure confidentiality of the information. The proposals should be individually wrapped and sealed, and labeled for content including "original" or "copy number x"; the original in English, the original in Spanish, one (1) copy in English, and three (3) copies in Spanish should be collectively wrapped and sealed, and clearly labeled.

Neither USTDA nor the Grantee will be responsible for premature opening of proposals not properly wrapped, sealed, and labeled.

2.15 AUTHORIZED SIGNATURE

The proposal must contain the signature of a duly authorized officer or agent of the Offeror empowered with the right to bind the Offeror.

2.16 EFFECTIVE PERIOD OF PROPOSAL

The proposal shall be binding upon the Offeror for ninety (90) days after the proposal due date, and the Offeror may withdraw or modify this proposal at any time prior to the due date upon written request, signed in the same manner and by the same person who signed the original proposal.

2.17 EXCEPTIONS

All Offerors agree by their response to this RFP announcement to abide by the procedures set forth herein. No exceptions shall be permitted.

2.18 OFFEROR QUALIFICATIONS

As provided in Section 3, Offerors shall submit evidence that they have relevant past experience and have previously delivered advisory, technical assistance, feasibility study, and/or other services similar to those required in the TOR, as applicable.

2.19 RIGHT TO REJECT PROPOSALS

The Grantee reserves the right to reject any and all proposals.

2.20 PRIME CONTRACTOR RESPONSIBILITY

Offerors have the option of subcontracting parts of the services they propose. The Offeror's proposal must include a description of any anticipated subcontracting arrangements, including the name, address, and qualifications of any subcontractors. USTDA nationality provisions apply to the use of subcontractors and are set forth in detail in Annex 3. The successful Offeror shall cause appropriate provisions of its contract, including all of the applicable USTDA Mandatory Contract Clauses, to be inserted in any subcontract funded or partially funded by USTDA grant funds.

2.21 AWARD

The Grantee shall make an award resulting from this RFP to the best qualified Offeror, on the basis of the evaluation factors set forth herein. The Grantee reserves the right to reject any and all proposals received and, in all cases, the Grantee will be the judge as to whether a proposal has or has not satisfactorily met the requirements of this RFP.

2.22 COMPLETE SERVICES

The successful Offeror shall be required to (a) provide local transportation, office space, and secretarial support required to perform the TOR if such support is not provided by the Grantee; (b) provide and perform all necessary labor, supervision, and services; and (c) in accordance with best technical and business practice, and in accordance with the requirements, stipulations, provisions, and conditions of this RFP and the resultant contract, execute, and complete the TOR to the satisfaction of the Grantee and USTDA.

2.23 INVOICING AND PAYMENT

Deliverables under the contract shall be delivered on a schedule to be agreed upon in a contract with the Grantee. The Contractor may submit invoices to the designated Grantee Project Director in accordance with a schedule to be negotiated and included in the contract. After the Grantee's approval of each invoice, the Grantee will forward the invoice to USTDA. If all of the requirements of USTDA's Mandatory Contract Clauses are met, USTDA shall make its respective disbursement of the grant funds directly to the U.S. firm in the United States. All payments by USTDA under the Grant Agreement will be made in U.S. currency. Detailed provisions with respect to invoicing and disbursement of grant funds are set forth in the USTDA Mandatory Contract Clauses attached in Annex 4.

SECTION 3: PROPOSAL FORMAT AND CONTENT

To expedite proposal review and evaluation, and to assure that each proposal receives the same orderly review, all proposals must follow the format described in this section.

Proposal sections and pages shall be appropriately numbered and the proposal shall include a Table of Contents. Offerors are encouraged to submit concise and clear responses to the RFP. Proposals shall contain all elements of information requested without exception. Instructions regarding the required scope and content are given in this section. The Grantee reserves the right to include any part of the selected proposal in the final contract.

The proposal shall consist of a technical proposal only. A cost proposal is NOT required because the amount for the contract has been established by a USDA grant of US\$374,000 which is a fixed amount.

Offerors shall submit one (1) original in English, one (1) original in Spanish, one (1) copy in English, and three (3) copies in Spanish of the proposal. Proposals received by fax cannot be accepted.

Each proposal must include the following:

- Transmittal Letter,
- Cover/Title Page,
- Table of Contents,
- Executive Summary,
- Company Information,
- Organizational Structure, Management Plan, and Key Personnel,
- Technical Approach and Work Plan, and
- Experience and Qualifications.

Detailed requirements and directions for the preparation of the proposal are presented below.

3.1 EXECUTIVE SUMMARY

An Executive Summary should be prepared describing the major elements of the proposal, including any conclusions, assumptions, and general recommendations the Offeror desires to make. Offerors are requested to make every effort to limit the length of the Executive Summary to no more than five (5) pages.

3.2 COMPANY INFORMATION

For convenience, the information required in this Section 3.2 may be submitted in the form attached in Annex 6 hereto.

3.2.1 Company Profile

Provide the information listed below relative to the Offeror's firm. If the Offeror is proposing to subcontract some of the proposed work to another firm(s), the information below must be provided for each subcontractor.

1. Name of firm and business address (street address only), including telephone and fax numbers.
2. Year established (include predecessor companies and year(s) established, if appropriate).
3. Type of ownership (e.g. public, private or closely held).
4. If private or closely held company, provide list of shareholders and the percentage of their ownership.
5. List of directors and principal officers (President, Chief Executive Officer, Vice-President(s), Secretary and Treasurer; provide full names including first, middle and last). Please place an asterisk (*) next to the names of those principal officers who will be involved in the Feasibility Study.
6. If Offeror is a subsidiary, indicate if Offeror is a wholly-owned or partially-owned subsidiary. Provide the information requested in items 1 through 5 above for the Offeror's parent(s).
7. Project Manager's name, address, telephone number, e-mail address and fax number.

3.2.2 Offeror's Authorized Negotiator

Provide name, title, address, telephone number, e-mail address and fax number of the Offeror's authorized negotiator. The person cited shall be empowered to make binding commitments for the Offeror and its subcontractors, if any.

3.2.3 Negotiation Prerequisites

1. Discuss any current or anticipated commitments which may impact the ability of the Offeror or its subcontractors to complete the Feasibility Study as proposed and reflect such impact within the project schedule.
2. Identify any specific information which is needed from the Grantee before commencing contract negotiations.

3.2.4 Offeror's Representations

If any of the following representations cannot be made, or if there are exceptions, the Offeror must provide an explanation.

1. Offeror is a corporation *[insert applicable type of entity if not a corporation]* duly organized, validly existing and in good standing under the laws of the State of _____. The Offeror has all the requisite corporate power and authority to conduct its business as presently conducted, to submit this proposal, and if selected, to execute and deliver a contract to the Grantee for the performance of the Feasibility Study. The Offeror is not debarred, suspended, or to the best of its knowledge or belief, proposed for debarment, or ineligible for the award of contracts by any federal or state governmental agency or authority. The Offeror has included, with this proposal, a certified copy of its Articles of Incorporation, and a certificate of good standing issued within one month of the date of its proposal by the State of _____.
2. Neither the Offeror nor any of its principal officers have, within the three-year period preceding this RFP, been convicted of or had a civil judgment rendered against them for: commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a federal, state or local government contract or subcontract; violation of federal or state antitrust statutes relating to the submission of offers; or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, tax evasion, violating federal or state criminal tax laws, or receiving stolen property.
3. Neither the Offeror, nor any of its principal officers, is presently indicted for, or otherwise criminally or civilly charged with, commission of any of the offenses enumerated in paragraph 2 above.
4. There are no federal or state tax liens pending against the assets, property or business of the Offeror. The Offeror, has not, within the three-year period preceding this RFP, been notified of any delinquent federal or state taxes in an amount that exceeds \$3,000 for which the liability remains unsatisfied. Taxes are considered delinquent if (a) the tax liability has been fully determined, with no pending administrative or judicial appeals; and (b) a taxpayer has failed to pay the tax liability when full payment is due and required.
5. The Offeror has not commenced a voluntary case or other proceeding seeking liquidation, reorganization or other relief with respect to itself or its debts under any bankruptcy, insolvency or other similar law. The Offeror has not had filed against it an involuntary petition under any bankruptcy, insolvency or similar law.

The selected Offeror shall notify the Grantee and USTDA if any of the representations included in its proposal are no longer true and correct at the time of its entry into a contract with the Grantee. USTDA retains the right to request an updated certificate of good standing from the selected Offeror.

3.2.5 Subcontractor Profile

1. Name of firm and business address (street address only), including telephone and fax numbers.
2. Year established (include predecessor companies and year(s) established, if appropriate).

3.2.6 Subcontractor's Representations

If any of the following representations cannot be made, or if there are exceptions, the Subcontractor must provide an explanation.

1. Subcontractor is a corporation *[insert applicable type of entity if not a corporation]* duly organized, validly existing and in good standing under the laws of the State of _____. The subcontractor has all the requisite corporate power and authority to conduct its business as presently conducted, to participate in this proposal, and if the Offeror is selected, to execute and deliver a subcontract to the Offeror for the performance of the Feasibility Study and to perform the Feasibility Study. The subcontractor is not debarred, suspended, or to the best of its knowledge or belief, proposed for debarment or ineligible for the award of contracts by any federal or state governmental agency or authority.
2. Neither the subcontractor nor any of its principal officers have, within the three-year period preceding this RFP, been convicted of or had a civil judgment rendered against them for: commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a federal, state or local government contract or subcontract; violation of federal or state antitrust statutes relating to the submission of offers; or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, tax evasion, violating federal or state criminal tax laws, or receiving stolen property.
3. Neither the subcontractor, nor any of its principal officers, is presently indicted for, or otherwise criminally or civilly charged with, commission of any of the offenses enumerated in paragraph 2 above.
4. There are no federal or state tax liens pending against the assets, property or business of the subcontractor. The subcontractor, has not, within the three-year period preceding this RFP, been notified of any delinquent federal or state taxes in an amount that exceeds \$3,000 for which the liability remains unsatisfied. Taxes are considered delinquent if (a) the tax liability has been fully determined, with no pending administrative or judicial appeals; and (b) a taxpayer has failed to pay the tax liability when full payment is due and required.
5. The subcontractor has not commenced a voluntary case or other proceeding seeking liquidation, reorganization or other relief with respect to itself or its debts under any bankruptcy, insolvency or other similar law. The subcontractor has not had filed against it an involuntary petition under any bankruptcy, insolvency or similar law.

The selected subcontractor shall notify the Offeror, Grantee and USTDA if any of the representations included in this proposal are no longer true and correct at the time of the Offeror's entry into a contract with the Grantee.

3.3 ORGANIZATIONAL STRUCTURE, MANAGEMENT, AND KEY PERSONNEL

Describe the Offeror's proposed project organizational structure. Discuss how the project will be managed including the principal and key staff assignments for this Feasibility Study. Identify the Project Manager who will be the individual responsible for this project. The Project Manager shall have the responsibility and authority to act on behalf of the Offeror in all matters related to the Feasibility Study.

Provide a listing of personnel (including subcontractors) to be engaged in the project, including both U.S. and local subcontractors, with the following information for key staff: position in the project; pertinent experience, curriculum vitae; other relevant information. If subcontractors are to be used, the Offeror shall describe the organizational relationship, if any, between the Offeror and the subcontractor.

A manpower schedule and the level of effort for the project period, by activities and tasks, as detailed under the Technical Approach and Work Plan shall be submitted. A statement confirming the availability of the proposed Project Manager and key staff over the duration of the project must be included in the proposal.

3.4 TECHNICAL APPROACH AND WORK PLAN

Describe in detail the proposed Technical Approach and Work Plan (the "Work Plan"). Discuss the Offeror's methodology for completing the project requirements. Include a brief narrative of the Offeror's methodology for completing the tasks within each activity series. Begin with the information gathering phase and continue through delivery and approval of all required reports.

Prepare a detailed schedule of performance that describes all activities and tasks within the Work Plan, including periodic reporting or review points, incremental delivery dates, and other project milestones.

Based on the Work Plan, and previous project experience, describe any support that the Offeror will require from the Grantee. Detail the amount of staff time required by the Grantee or other participating agencies and any work space or facilities needed to complete the Feasibility Study.

3.5 EXPERIENCE AND QUALIFICATIONS

Provide a discussion of the Offeror's experience and qualifications that are relevant to the objectives and TOR for the Feasibility Study. If a subcontractor(s) is being used, similar information must be provided for the prime and each subcontractor firm proposed for the project. The Offeror shall provide information with respect to relevant experience and qualifications of

key staff proposed. The Offeror shall include letters of commitment from the individuals proposed confirming their availability for contract performance.

As many as possible but not more than six (6) relevant and verifiable project references must be provided for the Offeror and any subcontractor, including the following information:

- Project name,
- Name and address of client (indicate if joint venture),
- Client contact person (name/ position/ current phone and fax numbers),
- Period of Contract,
- Description of services provided,
- Dollar amount of Contract, and
- Status and comments.

Offerors are strongly encouraged to include in their experience summary primarily those projects that are similar to or larger in scope than the Feasibility Study as described in this RFP.

SECTION 4: AWARD CRITERIA

Individual proposals will be initially evaluated by a Procurement Selection Committee of representatives from the Grantee. The Committee will then conduct a final evaluation and completion of ranking of qualified Offerors. The Grantee will notify USTDA of the best qualified Offeror, and upon receipt of USTDA's no-objection letter, the Grantee shall promptly notify all Offerors of the award and negotiate a contract with the best qualified Offeror. If a satisfactory contract cannot be negotiated with the best qualified Offeror, negotiations will be formally terminated. Negotiations may then be undertaken with the second-most qualified Offeror and so forth.

The selection of the Contractor will be based on the following criteria and their corresponding assigned weights:

1. Offeror's experience conducting similar feasibility studies for international energy projects and experience of key personnel in the following areas (25%):
 - Project management of international energy projects
 - Regulatory and policy issues related to international energy projects
2. Offeror's experience with Mexican energy laws and regulatory policies (25%)
3. Adequacy, soundness, and thoroughness of the Technical Approach and Work Plan (20%)
4. Offeror's experience with energy projects in Mexico (15%)
5. Offeror's recent experience with wind energy projects (10%)
6. Offeror's experience and ability to work in the Spanish language (5%)

Proposals that do not include all requested information may be considered non-responsive.

Price will not be a factor in Contractor selection.

ANNEX 1

FEDBIZOPPS ANNOUNCEMENT

David Muñoz Andrade, Director General, Comisión Estatal de Energía de Baja California, Ave. Pioneros 1060, Centro Cívico y Comercial, Segundo Nivel, C.P. 21000, Mexicali, Baja California, Mexico, Phone: (52-686) 555-6742

B – Mexico: Baja California Wind Power Project Feasibility Study

POC: Nina Patel, USTDA, 1000 Wilson Boulevard, Suite 1600, Arlington, VA 22209-3901, Tel: (703) 875-4357, Fax: (703) 875-4009. Baja California Wind Power Project Feasibility Study, Mexico.

The Grantee (the State Government of Baja California, acting through the State Energy Commission of Baja California) invites submission of qualifications and proposal data (collectively referred to as the "Proposal") from interested U.S. firms that are qualified on the basis of experience and capability to conduct a Feasibility Study for the Baja California Wind Power Project.

The objective of the Baja California Wind Power Project Feasibility Study is to enable the supply of 100 MW of wind power to state government office buildings and facilities in the State of Baja California in Mexico. The Feasibility Study will allow the Grantee to assess available wind power resources, verify the power demand profile, evaluate the financial value of wind power in comparison to existing power supply arrangements, and draft legal documents and agreements.

The Terms of Reference ("TOR") for the Feasibility include the following tasks: 1) Kick-Off Meeting and Inception Report; 2) Technical Analysis; 3) Financial Analysis; 4) Legal Documents; 5) Preliminary Environmental Impact Assessment; 6) Regulatory Review; 7) Development Impact Assessment; 8) U.S. Sources of Supply; 9); Implementation Plan; and 10) Final Report.

The U.S. firm selected will be paid in U.S. dollars from a \$374,000 grant to the Grantee from the U.S. Trade and Development Agency ("USTDA").

A detailed Request for Proposals ("RFP"), which includes requirements for the Proposal, the Terms of Reference, and a background desk study report are available from USTDA, at 1000 Wilson Boulevard, Suite 1600, Arlington, VA 22209-3901. To request the RFP in PDF format, please go to:

<https://www.ustda.gov/businessopps/rfpform.asp>.

Requests for a mailed hardcopy version of the RFP may also be faxed to the IRC, USTDA at 703-875-4009. In the fax, please include your firm's name, contact person, address, and telephone number. Some firms have found that RFP materials sent by U.S. mail do not reach them in time for preparation of an adequate response. Firms that want USTDA to use an overnight delivery service should include the name of the delivery service and your firm's account number in the request for the RFP. Firms that want to send a courier to USTDA to retrieve the RFP should allow one hour after faxing the

request to USTDA before scheduling a pick-up. Please note that no telephone requests for the RFP will be honored. Please check your internal fax verification receipt. Because of the large number of RFP requests, USTDA cannot respond to requests for fax verification. Requests for RFPs received before 4:00 PM will be mailed the same day. Requests received after 4:00 PM will be mailed the following day. Please check with your courier and/or mail room before calling USTDA.

Only U.S. firms and individuals may bid on this USTDA financed activity. Interested firms, their subcontractors and employees of all participants must qualify under USTDA's nationality requirements as of the due date for submission of qualifications and proposals and, if selected to carry out the USTDA-financed activity, must continue to meet such requirements throughout the duration of the USTDA-financed activity. All goods and services to be provided by the selected firm shall have their nationality, source and origin in the U.S. or host country. The U.S. firm may use subcontractors from the host country for up to 20 percent of the USTDA grant amount. Details of USTDA's nationality requirements and mandatory contract clauses are also included in the RFP.

Interested U.S. firms should submit their Proposal in English and Spanish directly to the Grantee by 6:00 PM (local time in Mexicali, Mexico), September 28, 2011, at the above address. Evaluation criteria for the Proposal are included in the RFP. Price will not be a factor in contractor selection, and therefore, cost proposals should NOT be submitted. The Grantee reserves the right to reject any and/or all Proposals. The Grantee also reserves the right to contract with the selected firm for subsequent work related to the project. The Grantee is not bound to pay for any costs associated with the preparation and submission of Proposals.

ANNEX 2

BACKGROUND DEFINITIONAL MISSION REPORT



Definitional Mission Report

Mexico Renewable Energy Projects



May 31, 2011



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The U.S. Trade and Development Agency

The U.S. Trade and Development Agency helps companies create U.S. jobs through the export of U.S. goods and services for priority development projects in emerging economies. USTDA links U.S. businesses to export opportunities by funding project planning activities, pilot projects, and reverse trade missions while creating sustainable infrastructure and economic growth in partner countries.

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EXECUTIVE SUMMARY

Mexico, a friend, neighbor, and trading partner of the United States, is changing its planning process to depend less on fossil fuels, and more on renewable energy for electricity generation. Mexico has a population of over 112 million with a GDP of \$1.467 trillion dollars, the 12th largest economy in the world.

Mexico now has a petroleum-based economy: its generating capacity is now fired primarily by oil (60%) or natural gas (25%). However, oil and gas production is decreasing and Mexico must develop other energy sources. As alternatives, the national utility company, Comisión Federal de Electricidad, or CFE, is planning new coal and nuclear plants as well as renewable energy projects. CFE and the government have also begun to encourage Independent Power Producers, IPPs, in renewable energy.

The nation has set an ambitious goal of 15% renewable energy by 2020. This goal is certainly attainable, and it can be exceeded in some scenarios. Mexico has huge undeveloped resources for wind, geothermal, solar, and biomass energy.

USTDA desires to find ways to provide assistance to specific renewable energy project opportunities that serve the energy needs of Mexico, that have potential to use U.S. vendors and services, and that qualify for USTDA assistance. Assistance may take the form of feasibility studies to support international bidding and financing, technical assistance and capacity development to improve the enabling environment, or assistance arranging contact with U.S. vendors and financial institutions.

USTDA contracted Energy Markets Group (EMG) to complete a Definitional Mission of the Mexico electricity sector. EMG was charged to identify at least 4 energy projects for which USTDA assistance would be pivotal, valuable, and timely. EMG assembled a team of energy experts comprised of Ahmad Ghamarian, Brenda Quiroz Maday, Michael Gembol, and James Sullivan to conduct the Mission and following analysis and reports.

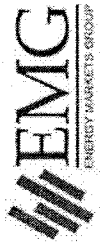
During preparations and during a 2-week fact-finding visit to Mexico, June 25 to July 8, 2010, EMG held 24 meetings with individuals, corporations, and government agencies. These meetings identified 28 active projects that qualify in some respect for USTDA assistance. They represent over 1,920 MW of immediate projects, with potential to be replicated or "rolled out" to over 73,000 MW, roughly the same size as Mexico's present electricity generating capacity.

In discussions with USTDA, this list was narrowed down to the 6 projects shown on the following page. Their project descriptions are attached. On further analysis, 3 projects were selected for USTDA support. For these 3 projects, EMG completed Terms of Reference to support the process by which USTDA will select vendors of the services to be supported by USTDA.

The three selected projects will provide a total of 173 MW of renewable energy generating capacity. Total capital cost of the projects is approximately \$415 million. Potential value of trade with U.S. vendors is approximately \$298 million. A summary table is shown on the following page.

The project selections are weighed heavily for feasibility: the Definitional Mission considered capabilities of sponsors, the policy framework of the Government of Mexico, environmental issues, and both financial and economic viability of the proposals. In each case, USTDA assistance can reduce delays, improve the focus of the project, and increase probability of successful financial closing.

Among the 24 projects not selected for USTDA assistance, there are many good, viable, and important projects. USTDA may later find resources to support some of these projects; other agencies may as well assign resources to some.



Executive Summary (continued)
Summary Table of Selected Projects

MEXICO RENEWABLE ENERGY PROJECTS SUMMARY TABLE OF SELECTED PROJECTS						
LOCATION	MW// Mwcap	Capitol Cost	U.S. Trade	Sponsor	Rollout Potential	
Zacatecas Landfill Gas Recovery plant	3 MW	\$ 45	\$ 30	Zacatecas Municipality	90 MW	
Zacatecas Wind Project	70 MW	\$ 160	\$ 120	Zacatecas Municipality	70 MW	
Tijuana Government/Int'l SPV for Windpower PPA	100 MW	\$ 250	\$ 175	Baja Energy Commission	250 MW	
Totals	173 MW	\$ 415	\$ 298		410 MW	

End of Executive Summary

List of Abbreviations

CFE	Comisión Federal de Electricidad
DISCOs	Distribution Companies
EoI	Expression of Interest
FDI	Foreign Direct Investment
GDP	Gross Development Product
GENCO	Generation Company
GoM	Government of Mexico
GWh	Giga Watt hour
IPP	Independent Power Producer
kV	KiloVolt
kW	Kilowatt (standard unit for electrical power)
kWh	kilowatt hour (one thousand Watt hours) (standard unit for electric energy)
LNG	Liquefied Natural Gas
LPG	Liquefied Petroleum Gas
MMCFD	Million Cubic Feet per Day
MTDF	Medium Term Development Framework
MTOE	Million metric Tons Oil Equivalent
MW	Megawatt (one million Watt hours)
PPA	Power Purchase Agreement
PV	Photovoltaic
TCF	Trillion Cubic Feet
TOE	Tons of Oil Equivalent
TWh	Terawatt-hour (one trillion Watt hours)
USAID	United States Agency for International Development
USTDA	United States Trade and Development Agency
WVO	Waste Vegetable Oil

1.0 PROJECT DESCRIPTION: DEFINITIONAL MISSION FOR MEXICO RENEWABLE ENERGY PROJECTS

On March 23, 2010, USTDA awarded a contract to EMG to perform a Definitional Mission for Mexico Renewable Energy Projects. The objective of the DM is to review and assess the current electricity industry of Mexico and identify and develop the TOR for USTDA funding consideration for at least four feasibility studies, technical assistance or other capacity building projects which would help Mexico develop its renewable energy resources.

EMG formed a team for the project consisting of Ahmad Ghamarian, team leader; Brenda Quiroz Maday, country energy expert; Michael Gembol, project development specialist; and James Sullivan, development specialist.

USTDA provided a briefing to clarify the Scope of Work and provided current information on known projects. They emphasized renewable energy projects such as wind, biomass, solar, geothermal, and hydro. Viable possibilities might include new plants or repowering existing fossil-fueled plants to use renewable fuels. Capacity building might be included, along with Technical Assistance if it is an instrument for enabling project execution such as advisory services for Power Purchase Agreement negotiation and Financial Package structuring. USTDA requested the DM Team to explore projects for potential cost sharing and coordination with other agencies such as USAID. The studies and/or technical assistance activities recommended by EMG should target the substantial implementation financing from OPIC and U.S. Ex-Im Bank as well as multilaterals such as the World Bank and IDB. USTDA prefers that the nominated projects be from the private sector but will accept projects sponsored by CFE or municipalities. USTDA provided relevant background information and extracts from specific project documents.

In preparation, EMG initiated a series of meetings with knowledgeable and interested U.S. parties, including USAID and DOE. These led to arrangements for follow-on meetings with their field offices and counterparts in Mexico.

With the help of USTDA and the U.S. parties, and using EMG's own resources in the industry and within Mexico, EMG prepared a detailed itinerary and schedule of meetings for a 2-week visit, proceeding to Mexico City, Guadalajara, Zacatecas, and Tijuana, concluding the trip in San Diego. EMG arranged meetings with Mexico government agencies and officials and private sector managers.



MEXICO RENEWABLE ENERGY PROJECTS
DEFINITIONAL MISSION REPORT

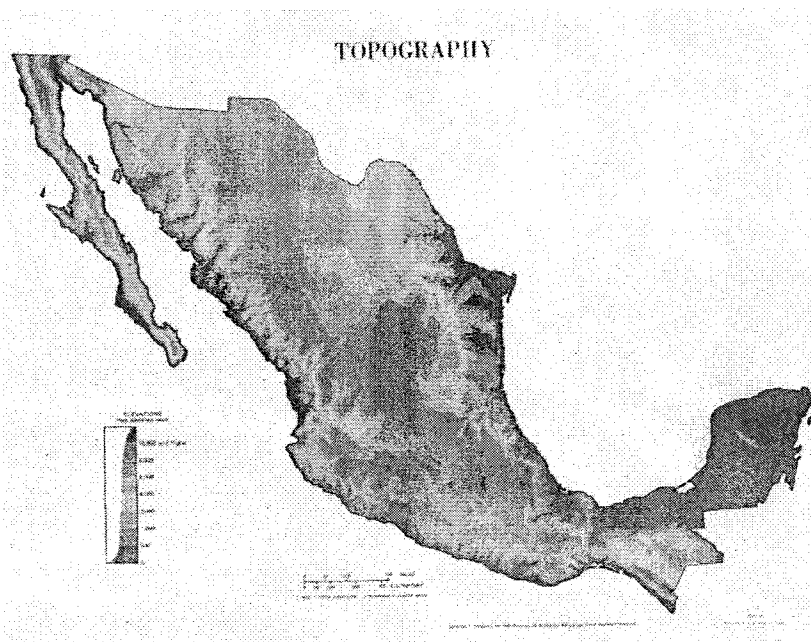
To introduce the Definitional Mission to counterparts, EMG prepared a Letter of Introduction describing the DM and requesting specific information on projects they may propose.

2.0 MEXICO'S GEOGRAPHY AND ECONOMY

Geography: Mexico is contiguous with the U.S., sharing a 1,969-mile border. It also borders Belize (251 miles) and Guatemala (541 miles).



The dominant feature of Mexico's topography is a central plateau rising to over 6000 feet in the south at Mexico City. Due to the high elevation, temperatures are stable in the 70's year round at the most heavily populated urban area around the nation's capital. As a result, there is very little air conditioning or heating required for much of Mexico's service territory, and only the extreme northern and southern areas, Baja California, and the coasts experience strong daily peaks.



Economy: Mexico's total population in July, 2010, is estimated at 112.5 million, 11th largest in the world, with about 77% of its population living in urban areas. Population growth rate was estimated at 1.118% per annum. Mexico has a relatively young population, with a median age of 26.7.

The total GDP of Mexico during 2009 was \$1.482 trillion. It fell 9% in 2009, but is expected to resume positive growth in 2010. The contribution to GDP from the agricultural sector was 4.3%; from the industrial sector, 32.9%; and 62.8% from service sectors. Per capita income is \$13,500, but income distribution is unequal.

Mexico's economy is increasingly dominated by the private sector. An energy reform bill was passed in 2008. Regulatory policy changes over the course of 2010 provide strong incentives for Independent Power Producers, private ownership, cogeneration, and renewable energy projects.

Significant to note, Mexico has considerable public and private wealth. Under the right circumstances, there is no shortage of investment funds for worthy infrastructure projects. There is, however, a shortage of the human infrastructure necessary to effect successful renewable energy projects: entrepreneurs, developers, energy engineers, progressive financial institutions, and environmentally aware citizens.

3.0 ENERGY SECTOR OF MEXICO

In Mexico, generation, transmission, supply, and distribution of the electricity system are state monopolies. Prior to October 2009, there were two government companies responsible for these functions: the Federal Electricity Board (CFE) and Central Power and Light (LFC). CFE was responsible for 80% of the national electricity system and LFC served the central region of the country and was responsible for 20% of its power distribution. At the end of 2009, Mexico's president, Felipe Calderon, issued an executive order to stop LFC's operations and its services were taken over by CFE. The Mexican electrical system is coordinated by the Secretary for Energy (SENER), the Regulatory Board for Energy (CRE), and the National Board for the Efficient Use of Energy (CONUEE). SENER is in charge of coordinating the national energy policy. The function of CRE is to regulate private participation in the electrical and natural gas sectors. CONUEE has the goal of fostering energy saving and efficiency and of promoting renewable energies.

Changes to Mexican law in 1992 opened the generation sector to private participation. Any company seeking to establish private electricity generating capacity or to begin importing/exporting electric power must attain a permit from CRE. By 2008, private generators held about 22,700 megawatts (MW) of generating capacity, mostly consisting of combined-cycle, gas-fired turbines (CCGT). CFE also operates Mexico's national transmission grid, which consists of 27,000 miles of high voltage lines, 28,000 miles of medium voltage lines, and 370,000 miles of low voltage distribution lines. According to CFE, the infrastructure to generate electric power is made up of 177 generating plants having an installed capacity of 50,238 megawatts (MW). 22.81% of CFE's installed capacity stems from 21 plants that were built using private capital by Independent Power Producers (IPP).

Although the amendment to allow IPPs was passed in 1992, the first IPP permit was not awarded until 1997, when the U.S. energy company AES won a contract to build, own, and operate the 532-MW Merida III plant. The IPP model was provided a fresh impetus in 2001 by President Vicente Fox of the Partido Acción Nacional. As of December 2009, IPPs operated around 11,450 MW of capacity at 22 plants, and 2009 was the first year in which private investment in energy exceeded public investment.

Different market configuration, regulation, infrastructure, and technology, combined with different cultural, operational, financial, and environmental conditions add levels of complexity towards achieving interconnected markets between Mexico and the United States.

3.1 ENERGY SUPPLY AND CONSUMPTION

3.1.1 Growth Scenarios

As mentioned in the section on Mexico's geography, the mild climate of central Mexico results in fairly low heating and air conditioning demand across the most heavily populated urban areas. Residential power consumption is modest. Consequently, despite strong economic growth and increasing affluence, CFE's demand growth scenarios are modest, at only 2.5-4.8% per year.



Growth scenarios

National GDP (%)		Scenario		
		Low	Medium	High
Estimate	2007-2017	2.6	3.6	4.3
Estimate	2008-2018*	1.8	2.3	3.5

* For the base scenario, the 2008 and 2009 GDP growth is 2% and 1.8%, respectively.

Electrical Power Consumption (%)		Scenario		
		Low	Medium	High
Estimate	2007-2017	3.6	4.8	5.4
Estimate	2008-2018	2.5	3.3	4.8

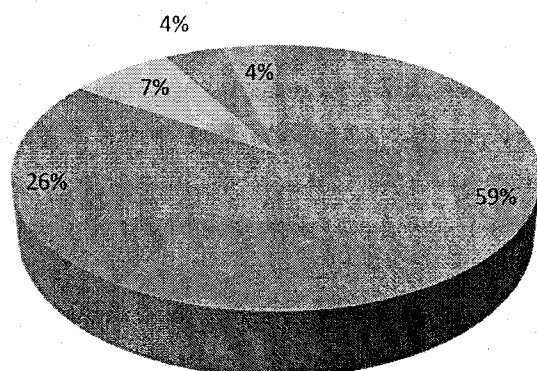
Works and Infrastructure Program of the Electrical Sector - Programa de Obras e Inversiones del Sector Eléctrico 2009-2018

3.1.2 Energy Consumption by Sector

The other major effect of climate is that the industrial sector dominates energy consumption, with 59% of the total demand. This is significant in several respects. The industrial sector, more than any other sector, has the technical and financial capability to participate in cogeneration and energy efficiency projects, depending on their process requirements. The sector has room to improve its energy utilization if circumstances compel it to improve. Second, the industrial sector is able to participate heavily in self-supply renewable energy projects, especially those that involve wheeling resources through CFE transmission systems at the new rate of 3 cents/kwh (about 2.5 cent/kwh) for high tension customers. Note that, theoretically, a plant in northern Mexico could wheel power to its parent company in southern Mexico at considerably less than the cost of transmission losses. Finally, there has been a very large unaccounted loss of power in serving industrial customers, and programs to correct this problem may improve the financial condition of CFE and provide additional incentive for energy efficiency, cogeneration, and renewable self-supply projects.

Energy Consumption by Sector 2008

■ Industrial ■ Residential ■ Commercial ■ Agricultural ■ Services



Prospective of the Electricity Sector 2009 - 2024, Ministry of Energy

Primary energy supply (ktoe)		Final energy consumption (ktoe)		Power generation (GWh)	
Indigenous production	251 288	Industry sector	32 704	Total	230 927
Net imports and other	-76 774	Transport sector	51 554	Thermal	185 812
Total PES	173 257	Other sectors	31 096	Hydro	27 042
Coal	9 121	Total FEC	115 355	Nuclear	10 421
Oil	76 279	Coal	1 106	Geothermal	7 404
Gas	68 659	Oil	75 985	Other	248
Hydro power	6 405	Gas	13 398		
Nuclear power	2 734	Electricity and other	23 759		
Geothermal	1 753				
Other	8 304				

Sources: Balance Nacional de Energía 2008, Sener, Mexico (www.energia.gob.mx), and Energy and Data Modelling Centre, Institute of Energy Economics, Japan (2009) (www.iecej.or.jp/egeda/database/database-top.html).

3.1.3 Ownership of Generating Capacity

Total installed capacity in 2010 will exceed 60,000 MW. This estimate is approximate because it may include plants with permits but not yet in service.

Ownership	Number of permits	Total capacity (MW)	Percentage of total national capacity (%)
CFE		37,831	64.5%
Independent Power Production (IPP)	22	11,447	19.5
Autogeneration	589	6,102	10.4%

Cogeneration	57	3,255	5.5%
Small Generation	19	3	0.005%

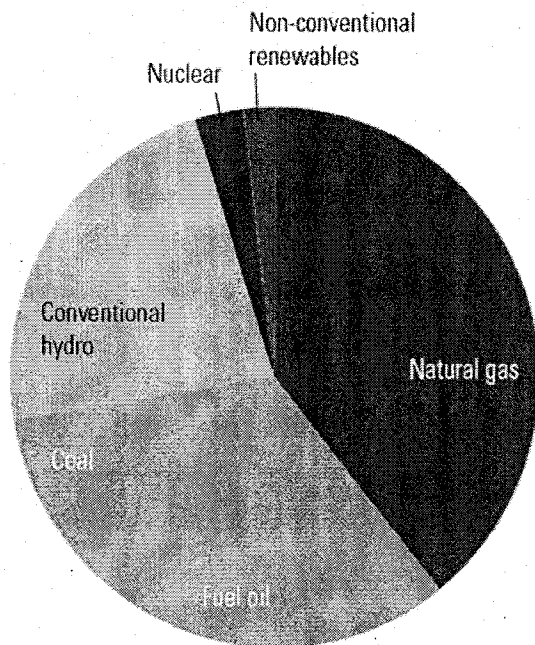
The IPP category consists of plants selling power to CFE. The category has grown rapidly since the first IPP startup in 1995. These are mostly gas-fired combined cycle plants, but they include a growing block of wind generation.

As discussed in [Section 3.7](#), CRE is changing regulatory policies to promote renewable energy and qualifying, efficient cogeneration. These incentives are expected to greatly increase the autogeneration, cogeneration, and small generation categories in the future.

3.2 CONVENTIONAL GENERATING CAPACITY

3.2.1 Oil and Gas-Fueled Generating Capacity

Mexico's domestic resources of oil and natural gas are in decline and the transportation sector now consumes all available oil production and imports more.



Many oil-fired plants have been converted to natural gas. Two LNG import terminals are in service, a third is under construction, and three more are planned on the Pacific Coast. CFE's POISE resource plan restricts the use of natural gas to no more than 40% of total capacity.

3.2.2 Coal-Fueled Generating Capacity

Mexico has no significant coal reserves; coal is imported from South American and Australia. Coal-fired generating stations now represent only 7.31% of CFE's generating mix, equivalent to 2,600 MW installed capacity from 8 generation units located in Nava Coahuila. However, CFE plans to add 1,961 MW of coal generation over the next 10

years, increasing to over 9% of the total.

3.3.3 Nuclear Generating Capacity

Mexico has one operating nuclear station, CFE's two-unit Laguna Verde, on the east coast. Originally designed for 1365 MW, it is being upgraded another 255 MW in 2010.

CFE is evaluating options to build new nuclear plants in the face of declining oil and gas availability; estimates range from 6 years to 20 years for the approvals, financing, and construction time. The decision to build nuclear plants is being driven both by the need to import fossil fuels and by environmental concerns.

Nuclear is not a preferred option due to its long lead times, high capital expense, waste disposal problem, and safety concerns. The CRE has set regulatory incentives for renewable energy projects partly in hope that successful development of Mexico's enormous renewable energy reserves can forestall commitments to nuclear power.

3.3 RENEWABLE ENERGY

Renewable energy in Mexico is provided by hydro, geothermal, wind, nuclear, and biomass (sugarcane and wood). Natural resources such as hydro, geothermal, wind, and nuclear are used for electricity generation, while biomass is used for heating purposes. The total installed capacity of renewables was 13,750 MW in 2008, the same as in 2007. Of the total installed renewable capacity, hydro made up 82.4% (SENER 2008a).

3.3.1 Mexico's Renewable Energy Goals

In November 2008, Mexico's Secretaria de Energia (SENER), published the Law for the Use of Renewable Energy and Financing Energy Transition, followed by regulation and implementation programs. Of particular interest is the Special Program for the Use of Renewable Energy that establishes specific renewable energy targets as follows:

Mexico: Renewable Energy Goals Indicator	Goal	Targeted Year	Status (2008)
Installed renewable electricity capacity	7.6 %	2012	3.3 %
Power Generated by Renewable Sources	4.5 – 6.6 %	2012	3.9 %

3.3.2 United States Renewable Energy Goals

Mexico's use of renewable energy is closely tied to renewable energy issues in the United States. According to the Federal Energy Regulatory Commission, 30 states have adopted

Renewable Energy Portfolio Standards (RPS), including all the bordering states: California, Arizona, New Mexico, and Texas.

Renewable Energy Portfolio Standards Set by Contiguous U.S. States

State	Targeted Power Generated from Renewable Sources	Targeted Year	Status (2009)
Arizona	15%	2025	10.73%
California	33%	2020	24.71%
New Mexico	20%	2020	8.58%
Texas	5,880 MW (10 – 14%)	2015	10.05%

Source: Status: EIA - State Total Electric Power Industry Net Summer Capacity

These strong commitments are significant to Mexico because the U.S. states have comparatively greater difficulty obtaining permits for new power plant and transmission line projects, and it is apparent that some states, particularly California, will not meet their commitments with new generating capacity sited within their own borders. (See note on comparative wind resources in Baja California, Sierra Juarez.) Mexico's great areas of undeveloped land, reserves of low-cost labor, and enormous renewable resources offer opportunities for developers trying to meet U.S. commitments.

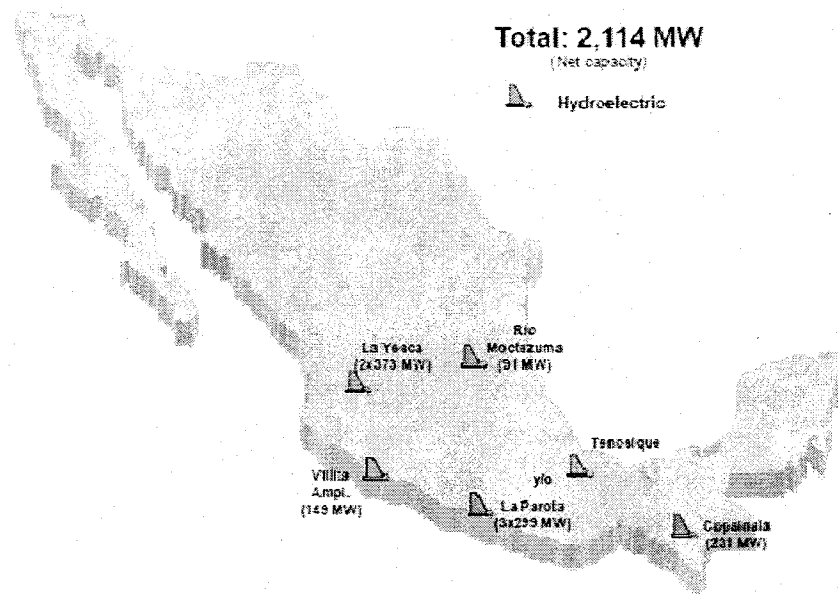
3.3.3 Large Hydroelectric

Southern Mexico has very strong large hydroelectric resources, generating 20% of Mexico's overall energy supply. These dams provide most of the flexible peak capacity of the Mexican power system, as well as large amounts of inexpensive baseload capacity. Since they provide so much peaking capacity, the hydro dams produce only about 16.6% of the total generation. Peaking is an important function, as it relieves the fossil-fueled units of the need to absorb peaks and operate at reduced, inefficient load levels. Mexico's hydro resource is so strong that

CFE has built transmission lines to interchange power, mostly surplus hydro power, with neighboring Guatemala.

CFE plans 2,114 MW of new large hydroelectric capacity at six sites by 2018.

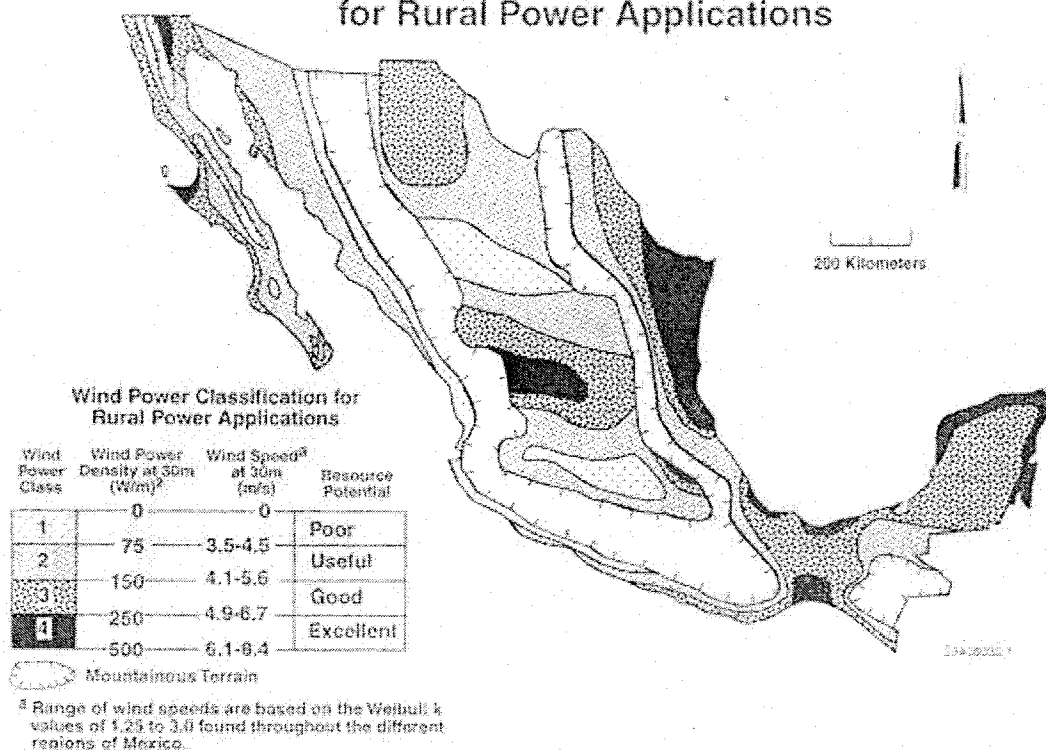
New Power Generation Infrastructure 2008-2018



3.3.4 Wind

Significant wind resources exist in many parts of the Mexico, with Class 4 resources in the Sierra Juarez mountains east of Tijuana, the Oaxaca area at the Isthmus of Tehuantepec (the isthmus west of Yucatan), the Caribbean coast of northern Yucatan, and the highlands around Zacatecas.

Mexico - Preliminary Wind Resource Map for Rural Power Applications



Total wind resources adequate for commercial development are estimated at 120,000 MW of electrical capacity. CFE is initiating several large wind projects, with 572 MW included in the POISE resource plan.

Wind Power

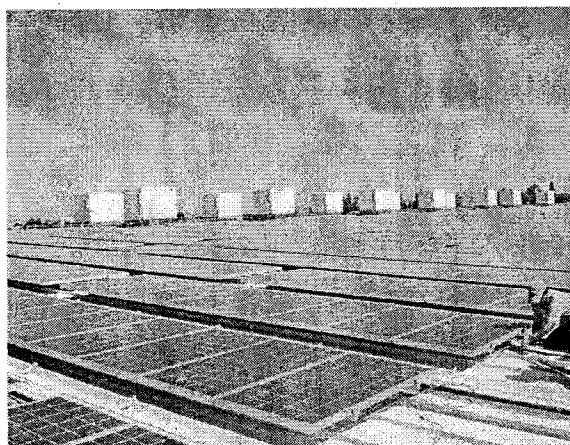
Project	Contract type	Range per unit capacity (MW)	Total capacity (MW)	Year
LA VENTA II	OPF	0.85	83	2006
LA VENTA III	IPP	0.85-2.5	99	2010
OAXACA I	IPP	0.85-2.5	100	2010
OAXACA II	IPP	0.85-2.5	100	2011
OAXACA III	IPP	0.85-2.5	100	2011
OAXACA IV	IPP	0.85-2.5	100	2011
TOTAL			582	

3.3.5 Solar Energy

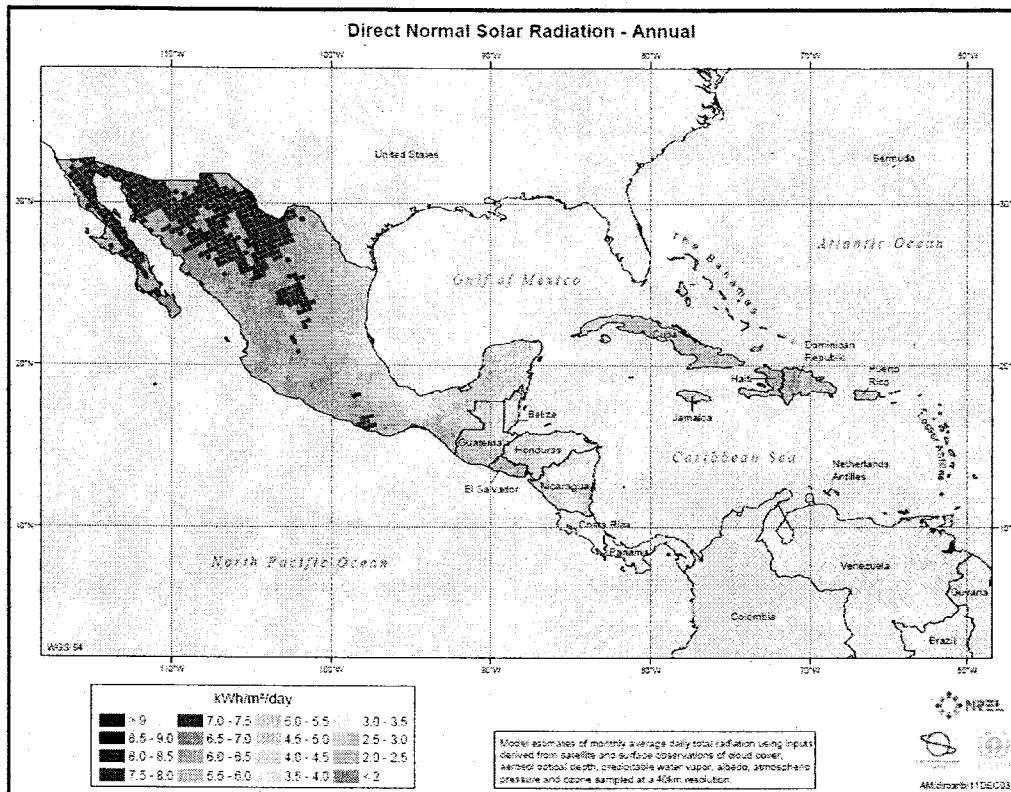
Mexico has one of the best solar resources in the world, with large areas of northern Mexico receiving 7.5-8.0 kWh/m²/day. Cloud cover is minimal, and much of the central plateau is over 5,000 feet of elevation, reducing atmospheric absorption. Total solar resources now adequate for commercial development are estimated at 45,000 MW of electrical capacity. The average insolation of Mexico is over 5.0 kWh/m²/day, so the total solar potential is over 50 times the present installed capacity, giving Mexico the third highest solar potential in the world.

Mexico has no grid-connected solar power plants. In 2006, the World Bank announced the funding of a \$50 million grant for a Hybrid Solar Thermal Power Plant Project at Agua Prieta, in sponsored by the government of Sonora. The project will integrate a parabolic-trough solar field with a 535 MW conventional combined-cycle gas turbine capacity. The steam produced by the solar field is added to the steam produced in the heat recovery steam generators of the CCGT plant, increasing the steam turbine capacity by 12-15 MW. With this hybrid concept, the solar thermal plant does not need a complete new steam and electrical system, reducing the capital costs markedly. The project was initially approved in 1999 with the construction contract expected to be awarded in 2010.

New regulatory policies allow renewable plants to wheel power through the CFE transmission system at a very reasonable "postage stamp" rate. Theoretically, a commercial developer could install a large solar plant in northern Mexico and wheel power to its commercial facilities anywhere in Mexico. In 2009, Wal-Mart Mexico launched what was the largest solar array in Latin America at the time, a 174-kW array of solar panels on top of its roof in Aquascalientes, about 100 km south of Zacatecas and 500 km northwest of Mexico City.



Roughly 60,000 to 80,000 solar PV systems operate across rural Mexico, after the government identified the technology as one of the most cost-effective ways to provide power to rural Mexicans without access to electricity.

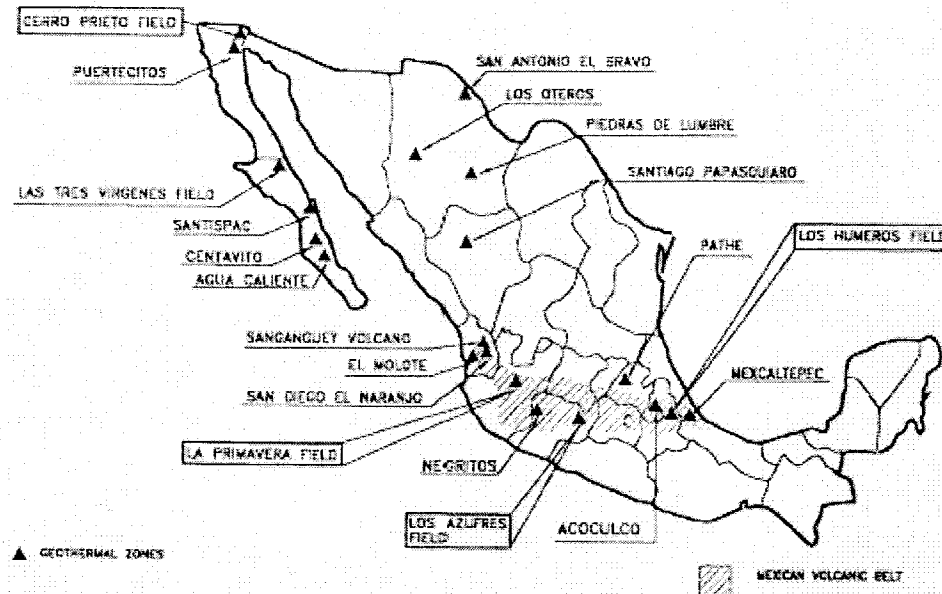


3.3.6 Small Hydroelectric

The total potential of small hydro power plants in Mexico is estimated at about 3,250 MW, including both run-of-river and irrigation canals. About 83 MW are in operation, with 105 MW under development; over 3,000 MW appears commercially feasible for development but is not yet addressed.

3.3.7 Geothermal

Mexico has about 8,000 MW of commercially viable geothermal resources for generating stations.



There are primarily 3 active sites producing electricity using geothermal resources:

Cerro Prieto – 720 MWe

Los Humeros – 42 MWe

Los Azufres – 188 MWe

These areas are divided into the volcanic belt stretching across the middle of the country and the Cerro Prieto which is part of the Imperial Valley/Salton Sea production zones working in the US today.

Currently, around 950 MWe are online producing some 6.6 GWh of electricity for Mexico, or about 3.1% of their annual electricity consumption. By the end of 2010, it is expected that an addition 220 MWe will be available (100 MW at Cerro Prieto, 45 MW at Los Humeros, and 75 MW at Cerritos Colorados.)

One difficulty pointed out to the DM is that CFE has a virtual monopoly on geothermal resources. There is no legal basis in Mexico for franchising geothermal resources. That means a developer can spend millions of dollars assessing and developing a geothermal resource, but another developer or CFE can then put in wells in adjacent area and deplete the resource. This is an unacceptable risk to most developers and investors.

Mexico also has a very large low-temperature geothermal resource suitable for ground-source heat pumps, greenhouses, fish farms, and desalination. UNAM has conducted research showing that essentially the entire eastern shore of Baja California on the Sea of Cortez has

sufficient geothermal resource to operate desalinate seawater in triple-effect evaporators. Communities down this coast have to import fresh water by barge at considerable expense. This project has been taken up by the Punta Brava Resort, now under construction near Ensenada, on the Pacific Coast, but can be replicated by hundreds of resorts and municipalities on the eastern Baja coast, as well.

Mexico also has significant geothermal resources in the form of high-temperature subsea vents, but no currently feasible or environmentally acceptable technology is available to exploit them.

3.3.8 Biomass

Biomass is an enormous, undeveloped energy resource for Mexico. Some agricultural industries use crop waste for process heat; few cogenerate electricity.

Crop Biomass

At present, no crop is grown exclusively for biomass, and there are no know industrial plants burning agricultural wastes. The one crop with the largest biomass potential appears to be agave. Agave is grown now for three purposes: tequila liquor, sisal rope fiber, and pulque, a beer-like beverage. None of these industries now uses agave waste, or agave bagasse, as fuel for process heat or cogeneration. An independent research group, the Agave Project, points out that agave can grow on arid land not suitable for other agriculture, requires no irrigation and little fertilizer, actually fixes nitrogen and beneficiates the soil, and yields as much as 7 times the yield of other crops grown for biomass energy.

Due to downturns in the tequila and sisal industries, some 95% of the existing agave cropland is lying fallow. Existing crops are not being harvested. In addition to that land, there are vast areas that could be readily converted to agave biomass agriculture. Some estimates suggest that agave biomass potential could exceed 100,000 MW, more than enough to replace all existing fossil generation and meet demand growth for the next 20 years. Agave agriculture is labor-intensive. Some sources have predicted that global climate change will cause a loss of 5 million agricultural jobs in Mexico by 2030. Agave crops could create 5 million new jobs to compensate.

Ethanol

A \$231 million factory is being built in Tamaulipas to produce 150 million liters/year of transportation ethanol from sorghum; the International Development Bank is providing part of the funding.

Municipal Solid Waste

The federal government agency, SEMARNAT, is responsible for designing the Mexican technical landfill standards (NORM 083) and provides municipalities with technical assistance and resources to comply.

Another federal government agency, SEDESOL, provides technical assistance for the implementation of landfill gas recovery projects across Mexico. SEDESOL used EPA's guidelines to estimate the amount of gas that could be recovered from landfills; they soon noticed that this calculation needed to be adjusted due to the different waste composition. Mexico's waste contains a higher percentage of organic material resulting in about 30% higher gas production. They received technical assistance from the USEPA in order to adapt the model to Mexico's waste stream compositions.

The SEDESOL projects are designed for gas recovery from inception. Gathering systems are laid on long term landfills. Initial gas collection is flared until sufficient volume is produced to support electricity generation. Then internal combustion engines of about 1 MW are installed. Gas collection increases as the landfill approaches full capacity. When landfilling stops, gas collection decays exponentially over a period of about 40 years. Where physical space allows, a second long term may be laid out parallel to the first and continue gas supplies to the generators.

The first landfill gas recovery plant has been implemented at Monterey, where it is generating 15 MW of renewable energy. They have completed about 6, and have another 12 projects lined up as feasible projects.

SEDESOL's priorities naturally start with the largest landfills service the largest cities. The next tier of smaller cities have no landfill gas recovery projects, but the Municipality of Zacatecas has acted on its own initiative to establish a consortium with three adjacent municipalities to form a new, conforming landfill, which is funded and will start construction in 2010. Zacatecas has requested assistance from USTDA to perform a feasibility study to determine whether this smaller landfill can also generate power from landfill gas recovery. This project would provide proof of concept for dozens of medium-sized cities to produce power on a self-supply basis.

Municipal Sewage Sludge

Across Mexico, municipalities are installing sewage treatment systems. There are viable technologies for gasification or direct combustion of sewage sludge. The Economic Development Agency of Baja California expressed interest to the DM.

Animal Wastes

Manure waste from cattle farms, pig farms, and chicken ranches is another important source of energy. There are a several large cattle colonies near large cities which produce commercially exploitable cattle waste. Studies are being undertaken to prepare projects of power generation utilizing this important source of biomass.

Typical animal waste projects include modular biogas digesters providing gas to 2-MW spark ignition diesel generators. Single modules can be installed on small farms; large agricultural projects or municipal feedlots might require dozens of modules. Digester plants also produce salable fertilizer.

The University of Guadalajara expressed interest to the DM in setting up a pig farm biodigester project capable of producing 5-15 MW of power by pooling waste from several nearby pig farms and poultry ranches.

Biodiesel/Vegetable Oil

Several entrepreneurs have set up small businesses to collect waste vegetable oil (WVO) available from restaurants and hotels, etc., for processing into diesel fuel. Commercial sources generally re-use WVO until it is exhausted, too contaminated for further use, resulting in a fairly low quality biodiesel feedstock requiring extra filtration and acid neutralization. Households, however, generally dump WVO into kitchen drains after one use, where it drains into sanitary sewer systems. (By contrast, oil from automobiles generally drains into storm sewer systems.) As more Mexican municipalities install sewage treatment plants, they find that oils interfere with biological degradation of the wastes. It is possible that oil traps installed at sewage plants could collect much greater volumes of WVO than commercial sources provide.

Mexico has considerable capacity to grow biodiesel crops. *Jatropha* grows well there, and a native shrub, *higuerilla*, also produces an oil suitable for processing into biodiesel.

The DM was introduced to an entrepreneur processing WVO from restaurants in Tijuana. We explored the possibility of setting up a biodiesel treatment facility with modern tankage, pumps, instrumentation, and handling systems, and with capacity to process waste oil from a variety of sources, including restaurant WVO, WVO collected in sewage system oil traps, and various biodiesel crops. The facility could engage regular laborers and analysts, maintain a vehicle fleet for collections, establish a biodiesel filling station, negotiate favorable terms for bulk consumables, and lease processing time to several entrepreneurs. The concept is promising and may be referred to other assistance organizations.

3.3.9 Other Renewable Energy Sources

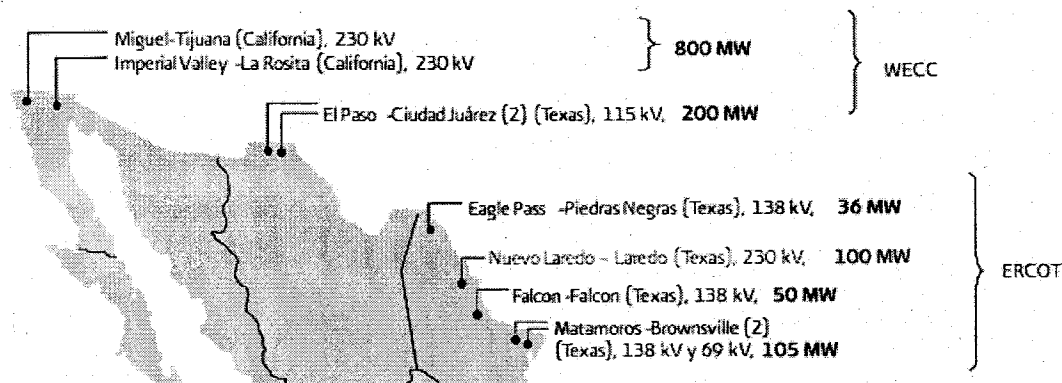
UNAM has performed studies and developed designs showing the feasibility of installing ocean current generators in the relatively narrow straits between Yucatan and Cuba. The resource is enormous; the technical difficulty is in anchoring and collecting power from large numbers of water turbines, then transmitting the power significant distances to shore-based substations. In a situation where there is still a large undeveloped hydroelectric resource in Yucatan, the ocean current concept is not likely to be competitive.

UNAM has also studied the concept of installing retention dams across bays in the northern extremes of the Sea of Cortez, which have a high tidal range. The environmental implications are very challenging, probably prohibitive, as the shallows of the Sea of Cortez are one of the most prolific breeding grounds in the world for fish, whales, and other sealife.

3.4 CROSS-BORDER POWER INTERCONNECTIONS AND COMMERCE

There are nine power interconnections between the U.S. and Mexico shown in the following map. Each one of them varies in terms of its voltage and load capacity. Five of those interconnections (ERCOT) operate only in emergency situations.

Electric Interconnections in the Border Region, 2008



Source: Adapted from: "Perspectiva del Sector Electrico 2009 - 2024," SENER 2010

Electricity commercialization between the U.S. and Mexico is more active between the California - Baja California region, with 1,537 GWh traded between the regions.

Table V. Electric Trade (GWh), 1998 - 2008

Entidad Federativa	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Exportaciones											
Chiapas ¹	-	-	-	-	-	-	-	1	2	2	3
Baja California ²	45	31	66	112	164	765	770	1,037	1,072	1,211	1,197
Tamaulipas ³	-	-	2	1	-	-	-	-	16	13	4
Quintana Roo ⁴	31	100	127	158	180	188	236	253	209	225	248
Total	76	131	195	271	344	953	1,006	1,291	1,299	1,451	1,452
Importaciones											
Baja California ²	480	646	927	82	311	45	39	75	514	266	340
Sonora ⁵	3	4	4	4	5	5	6	6	6	6	6
Chihuahua ⁶	1,022	7	129	235	189	21	2	6	3	3	3
Tamaulipas ³	2	2	9	6	26	-	-	-	1	3	3
Total	1,507	659	1,069	327	531	71	47	87	523	277	351
Balance neto exportación-importación	-1,431	-528	-874	-56	-187	882	959	1,204	776	1,174	1,102

¹ Guatemala.

² Coral Power L. L. C., San Diego Gas & Electric y Sempra Energy Solutions.

³ Central Power & Light (CPL) (EUA).

⁴ Belize Electricity Board (Belize).

⁵ Sasabe Trico Electric Cooperative y Santa Cruz (UNS Electric) (EUA).

⁶ Rio Grande Cooperative Inc. y American Electric Power (EUA).

Fuente: CFE.

Source: "Perspectiva del Sector Electrico 2009 - 2024," SENER 2010

3.5 TRANSMISSION

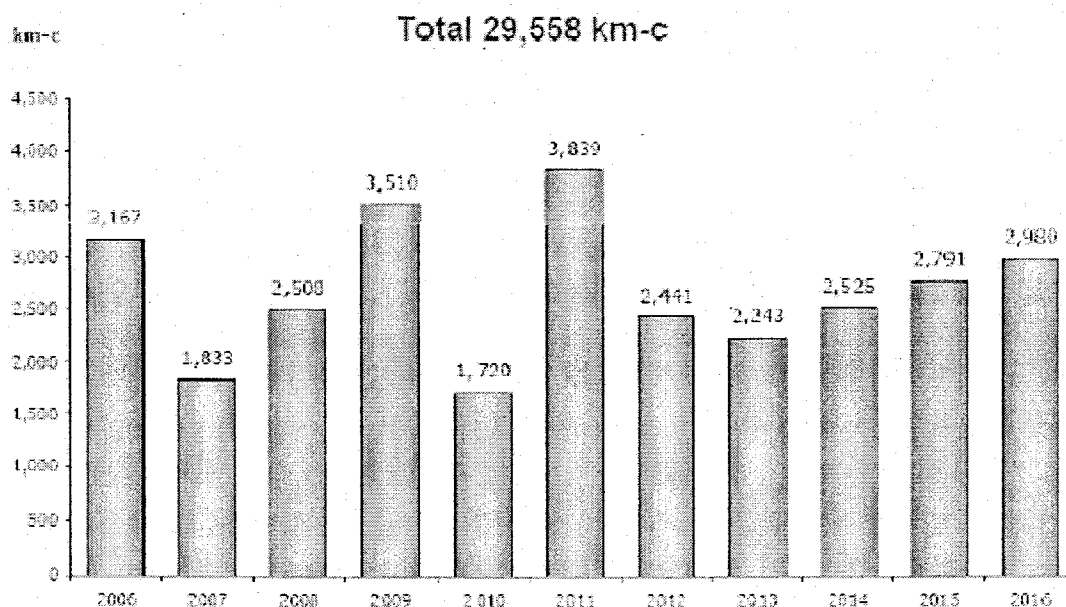
CFE plans an average of 3,000 km of transmission lines per year to handle new plant capacity and changes in urban demand patterns. Specific projects in southern Mexico support a large number of wind projects planned in Oaxaca.



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Subdirección de Desarrollo de Proyectos

Infrastructure additions to the 69 – 400 kV transmission grid



3.6 DISTRIBUTION

CFE is in the process of taking over the distribution system of Mexico City, which was in disrepair and burdened with high technical and non-technical losses. Rebuilding the Mexico City grid is an opportunity to incorporate Smart Grid features, but this is not now CFE's main priority.

It will also spend over 3 billion pesos per year in routine maintenance and expansion of distribution systems.

3.7 REGULATION

CRE has 7 regulators, each serving a 5-year term. One regulator must change every year. The commission is relatively independent, but has not yet assumed tariff authority, which is still held by SENER. CRE is preparing by performing cost of service studies to rationalize tariffs.

The Regulatory Commission is concerned by climate change, supportive of renewable energy projects, and pushing for favorable environmental legislation. Under present law, they do have

some flexibility in setting favorable tariffs for renewable energy projects if CFE initiates a request, as in a pilot project for a new technology.

CRE is changing regulatory policies to promote efficient cogeneration and for renewables. For cogeneration, there will be efficiency and minimum process steam requirements, similar to the EU's policy (which derives from the U.S. PURPA.)

They are trying to support both the public utilities and the local self-supply generation projects, which is a balancing act. Wind projects can now sell to the CFE grid at local TOU retail tariffs, and power from intermittent sources can be banked on the grid. They expect to have a capacity tariff by EOY 2010 for 90% of avoided cost. One very favorable feature for wind is the ability to use monthly average output in determining demand charges for self-supply ventures, instead of using the minimum, which is usually zero for a wind plant.

CRE has put in place a postage stamp rate for renewables: they can now wheel power to other users, their own facilities, or even foreign purchasers from anywhere in Mexico for a reasonable fixed fee. The fee is 0.03 pesos (about 0.25 U.S. cents) for customers at transmission voltage, another 0.06 pesos for medium-voltage customers, and another 0.06 pesos for residential voltage. That totals about one U.S. cent, illustrating that a wind project could interconnect to CFE and use the existing distribution systems to supply power to industrial, commercial, and residential consumers.

Small solar PV installations like homes can run their meters backwards, exporting power to the grid, and thereby reduce their energy and demand charges, but they cannot receive payment for excess generation. Central Mexico, being on a high plateau, has very little daily or seasonal temperature variation, but Mexicali, for example, in Baja California, has a high daily air conditioning peak, and CRE is encouraging customers to put in solar PV up to ½ kw.

The National Plan calls for 30% "clean energy" by 2025. Renewables have these options:

1. CFE can competitively bid on energy cost and capacity charge basis with no size limit.
 2. For IPP renewables up to 30 MW and for cogen up to 20 MW, CFE will pay only energy cost, not capacity charge. However, CFE is expecting to implement a full avoided cost capacity charge.
 3. If CFE needs an incentive tariff on a case basis, CFE can issue a special tariff on an ROE basis.
- CRE is concerned that CFE has dwindling gas supplies. No new oil plants will be permitted, so they must turn to renewable, coal, or nuclear. There are two operating LNG terminals, each with 500 mmcf/day capacity, and a 1 bcf/day plant is under construction in Ensenada.

Domestic tariffs are very high, but often not paid. Small commercial customers receive about 6-7 billion pesos subsidy, and there is a big subsidy for large agriculture. There is a huge amount of non-payment in Mexico City and Acapulco. CFE has now taken over the Mexico City franchise area and is cleaning up the payments and theft problems. 59% of Mexico's power production is for industrial customers, and there is massive theft in that sector.

CFE has de facto monopoly power on geothermal. There is no franchise protection for resources. It takes a lot of time and money to develop an underground resource, and a competitor can then come in and build a plant that takes away some of the heat, depleting the resource. The risk is too high for a private developer.

CRE is concerned that most developers still do not know the present tariff options for renewables, and more improvements are in process.

3.8 GENERATION PLANNING

CFE's POISE Resource Plan, 2008-2018, is summarized:

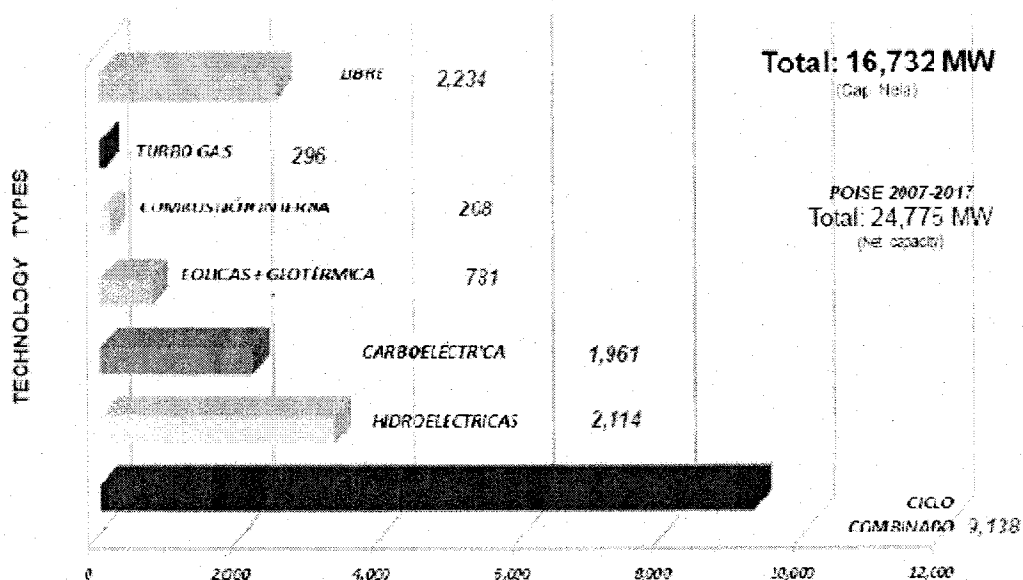
1. In order to meet the next ten years' electricity demand, CFE plants to install over 17,000 MW of new capacity.
2. Energy source diversity is desired. The POISE 2008-2018 will try to restrict the use of natural gas to only 40% of the electrical capacity, seeking to encourage the energy source diversity and renewable energy projects.
3. The generating power capacity to be installed in this period will be:
 - 9,138 MW of gas-fired combined cycle
 - 2,114 MW hydroelectric plants
 - 1,961 MW coal plants
 - 781 MW wind power and geothermal plants
 - 2,234 MW technology to be defined on trends



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Capacity Requirements Program (2008-2018)



3.9 ISSUES

Some issues have been briefly discussed in the foregoing description of the energy sector. Following is the summary of major issues confronting the sector.

3.9.1 Cross-Border Interconnection with the U.S.

On the Mexican side, CFE and the SENER have concentrated decision authority, with only a few major parties involved in the process. Across the border, in the U.S., their direct counterparts are not necessarily the lead parties in the decision process. Instead, there are hundreds of state and federal government agencies, individual utilities, independent power developers, industry associations, financial institutions, research groups, consumer groups, and energy market entities, all holding partial keys to the decision process.

3.9.2 Regulatory Incentives for Renewable Energy Projects

To date, there has been very little renewable project development. New regulatory policies appear to be very favorable to industrial and municipal users and to independent power developers. CRE expects that policies recently promulgated and new policies due for release

before the end of 2010 will create great numbers of financially viable projects. The issue may be that a great numbers of independent projects could cause financial impacts on CFE or create chokepoints or instabilities in the transmission system.

4.0 PROJECT TERMS OF REFERENCE STUDIES

4.1 Project Selection Process

Selection criteria were determined in discussions with USTDA before the start of the Definitional Mission. The project opportunities selected by the Definitional Mission must have value in one of the following Value Criteria or in combinations, and must meet all the Compliance Criteria.

Value Criteria

- A. Support renewable energy development in Mexico by increasing biomass, wind, geothermal, and solar generating capacity, or providing renewable fuel to present or future generating projects, or
- B. Have potential for replication of the project concept, once demonstrated, in larger quantities, or
- C. Improve the enabling environment of policy, regulation, institutional capacity, and investor confidence in order to facilitate and accelerate investment, both domestic and foreign, in the energy sector.

Compliance Criteria

- A. Have minimum feasible adverse impact on the environment and on the general population of Mexico.
- B. Have a high degree of certainty of completion through economic and financial and technical feasibility; reasonable cooperation of all involved parties; compliance with laws, policies and regulations governing the energy sector; and the commitment and resources of the sponsors.
- C. Exhibit diversity with the intent of opening doors in many technologies, financing methods, locations, fuel types, involved industries, and agencies.
- D. Have potential for greater than \$10 million of U.S.-sourced equipment or services.
- E. Require assistance of a nature which USTDA is able to provide: U.S. consultant services to conduct feasibility studies costing in the range of \$300,000 to \$1,000,000 (with cost sharing where available); Technical Assistance for analyzing specific problems or helping

to complete financing packages; or Capacity Development services to provide training to government officials.

The members of the Definitional Mission acted as a panel of experts in applying these criteria subjectively during the course of meetings with sponsors and responsible agencies. In addition to their own experience as energy professionals, they sought and applied the advice of counterparts in Mexico and in the U.S.

4.2 Project Reports Summary

The Definitional Mission met with 28 interested parties, including government agencies, private energy companies, banks and investors, vendors of equipment and services, multilateral Assistance agencies, and project sponsors. These are listed in the Final Itinerary, Appendix B. Meeting Reports are provided in Appendix C.

At most of these meetings, project opportunities were identified. Some of these were conceptual – the counterpart suggested a concept without having in mind a specific sponsor or host agency. In some cases the party was a responsible government agency with intent to implement competitive bidding to identify sponsors or vendors. And some of the parties were themselves sponsors of projects or members of the development consortium of those projects. As a result of the meetings and the development of some concepts during those meetings, the Definitional Mission identified 28 project opportunities. By the estimates of the project sponsors, supplemented by rough estimates from the Definitional Mission, these project opportunities represent about 777 MW of generating capacity (including estimates of generating capacity that could be supported by fuel supply projects.)

In exceedingly rough estimates, some of these projects would lead to extensive replication, leading eventually to a total of 60,700 MW, or almost the existing total generating capacity of Mexico.

The Definitional Mission encouraged sponsors of the most promising projects to submit *pro forma* information about those projects. The Definitional Mission identified 14 project opportunities that best conformed to the criteria of Section 4.1. These are listed in Section 4.3 below.

DEFINITIONAL MISSION STUDY

EXECUTIVE SUMMARY: The Baja California Energy Commission is trying to promote renewable energy. Several large wind farm projects east of Tijuana are stalled in development, waiting for transmission access into the United States. Under recently promulgated regulatory policies, the Commission can form a Special Purpose Vehicle (SPV) to pool the demand of the government buildings in Tijuana and surrounding areas and purchase power from a wind farm on a self-supply basis. The Commission estimates the SPV can enter a Power Purchase Agreement (PPA) for 100 MW of power. That block of power could form the first phase of construction of a wind farm and anchor the financing for subsequent phases. In effect, the selected wind farm will be split into two sections: one will provide power to the SPV; the other will export power to the U.S.

The SPV will hold a competitive tender for wind energy. The winning developer must build a transmission link to the nearest CFE transmission line substation or access point. The cost of the transmission link must be included in the bid price. CFE will wheel power to Tijuana and distribute it to government buildings participating in the SPV under a "postage stamp" tariff amounting to 0.9 centavos/kwh, or approximately 0.8 c/kwh, to those buildings with medium voltage distribution service. New regulatory policies also allow the SPV to offset its demand payments by the average wind generation.

To qualify for a self-supply rate, the SPV must be the owner of the relevant phase of the wind farm, which will require an agreement with the selected wind farm. Presumably, the developer will continue to operate the plant under contract to the SPV while the SPV assumes responsibility for making loan payments.

The Commission has requested USTDA to provide technical assistance to confirm technical and financial feasibility of the concept, define the legal entity of the SPV, prepare competitive bidding documents to select a wind farm, and prepare the Power Purchase and Interconnection Agreements.

BACKGROUND: The Sierra Juarez mountains extend from the U.S. border to southern Mexico, running along the eastern shore of the Sea of Cortez. Prevailing winds reach 7 meter/second along the ridge line east of Tijuana, in the Rumorosa region. Several developers have set up projects along the ridge line. These include projects by Sempra, Cannon, Pan-America, and Fuerza Eolica. The Sempra site is almost on the border; others are farther south. Sempra and Cannon are close enough to build their own transmission lines to the U.S. border and farther to connect to the Imperial Valley Cooperative's (IVC's) grid. The others must cooperate to cover the cost of a shared transmission line. The shared line will add significantly to the costs of each project and it is not certain the necessary agreements can be set up. Pan-America, with 400 MW in planning and potential for up to 1,000 MW, has the size to justify the added cost and is preparing to build its own transmission line over 70 miles.

4.4.3 Feasibility Study for Baja California Windpower SPV

Power from any of these projects will be fed into the IVC grid, which will then wheel the power to San Diego Gas & Electric Company, the ultimate purchaser. Collectively, the wind projects can produce several thousand megawatts, which is more than the IVC grid can carry. Most of the wind farms will have to wait for completion of the Sunrise Power Link, a \$1.9 billion, 120-mile 500-kV transmission line with 1,000 MW of capacity, running from the IVC grid to San Diego, passing within a few miles of the U.S./Mexico border. The California ISO has taken deposits from candidate IPPs in the U.S. and in Mexico to reserve capacity on this line. The final permit was approved by the United States Forest Service in July, 2010, and construction will start before the end of 2010.

Initially, none of the projects intended to sell any portion of their power to Mexican users.

PROJECT DESCRIPTION:

The Project comprises these stages:

1. Selection of an independent U.S. consultant by competitive bidding within USTDA criteria
2. Technical Assistance
 - a. Evaluate the load profile of the SPV
 - b. Determine the effective avoided energy and demand costs.
 - c. Evaluate the probable generation profile of candidate windfarms
 - d. Verify technical, financial, economic, and environmental viability of the project
 - e. Prepare applications for permits and authorizations as needed
 - f. Prepare SPV legal formation documents
 - g. Prepare competitive bidding documents
 - h. Prepare a Power Purchase Agreement and Interconnect Agreement
3. Competitive bidding to select a wind farm.
4. Construction of 100 MW of wind generating capacity and a transmission link to the CFE grid
5. Power sales to the SPV

USTDA will support Stage1 and all components of Stage 2.

Contractor will provide Technical Assistance at direction of Grantee management.

Time frame of the study will be about 6 months.

QUALIFICATIONS: Personnel Qualifications required for this Technical Assistance include:

- A Project Manager with at least 10 years experience in energy project management at a consulting firm, including experience on at least one international project
- A Regulatory and Policy Specialist with 4 years of experience in international energy projects

4.4.3 Feasibility Study for Baja California Windpower SPV

The Contractor selected should have the experience shown within the personnel listed or within some combination of the required experience under differing titles.

Corporate Selection criteria for competitive bidding include:

- Experience in Mexican regulatory policy and energy law (35 points)
- Experience in international technical assistance of this type (35 points)
- Experience on energy projects in Mexico (15 points)
- Recent experience in wind energy projects (10 points)
- Experience with USTDA (5 points)

PROJECT SCHEDULE: The project Contractor should be selected by Grantee within 6 weeks of agreement with USTDA. The Technical Assistance will require about 12 months of intermittent work. A schedule is attached following the Terms of Reference.

SPONSOR'S CAPABILITY AND COMMITMENT: The sponsor for the project is the Baja California Energy Commission, which is acting in behalf of the State of Baja California in establishing an SPV of government buildings. That means the full faith and credit of the State of Baja California is in support of the project, and the project debt will be amortized with the state's electricity payments.

The project has no capital costs – no equipment is being purchased. Electricity purchased under the PPA will cost either less or only slightly more than the cost of power purchased under conventional arrangements with CFE. If bids for wind power come in significantly higher than the present cost of power, then the RFP will be voided. The only significant costs are the legal costs for the Commission to set up and negotiate the required documents.

Demonstrating commitment, the Baja California Energy Commission developed, financed, built, and placed in service a 10-MW wind farm as a proof of concept, using its own funds. Also, in order to avoid land issues, the Baja California Government will be acquiring the land to be used for installing the wind turbines.

IMPLEMENTATION FINANCING: This project involves establishing a Special Project Vehicle which will enter into a PPA with a private wind farm project to be selected by competitive bidding. The selected wind farm developer will finance the project with its own resources, as previously planned. The SPV will make legally binding commitments to pay for electric power received under the terms of the PPA.

USTDA's grant funds shall not be used for the purchase of any equipment associated with project. The Grantee is responsible for identifying requesting and or securing the financing needed to implement the project, outside of the scope of these USTDA-funded Terms of Reference.

ENVIRONMENTAL IMPACTS: The Technical Assistance will evaluate environmental impacts on a marginal basis only, considering only the added impacts of diverting power from the planned cross-border transmission

4.4.3 Feasibility Study for Baja California Windpower SPV

line into Tijuana. The impacts are presumed to be negligible, far less in magnitude than the beneficial effects of offsetting approximately 80 MW of fossil-fueled generation. The project is expected to have no adverse environmental impact but to have net positive environmental impact by offsetting generation from present and planned thermal power plants, reducing fossil fuel consumption, imports of fuels, and emissions of pollutants and CO₂.

U.S. EXPORT POTENTIAL:

U.S. companies have excellent competitive positions in wind turbines, controls and instruments, wind resource assessments, and wind farm design and engineering. The effect of this Technical Assistance will be to accelerate the transactions to the near future, instead of waiting an indeterminate amount of time, possibly several years, for transmission access to the U.S.

U.S. firms providing competitive wind turbines for Mexico are listed:

CATEGORY	COMPANY	SPECIFIC DETAILS
Equipment	Gamesa* General Electric Clipper	Complete systems and design

* Gamesa is a Spanish corporation but its major wind turbine components are manufactured in the U.S.

FOREIGN COMPETITION AND MARKET ENTRY ISSUES: European and Asian firms have installed the bulk of the wind turbines in the large wind farms located in Oaxaca in southern Mexico. Wind farms in the Rumorosa region of northern Mexico will import their equipment through the U.S. border, giving U.S. suppliers a distinct pricing advantage.

There is no market entry issue for U.S. wind turbine companies in Mexico.

DEVELOPMENT IMPACT: The Technical Assistance will lead to new generating capacity with renewable technology.

Category	Explanation
Infrastructure	Mexico's total generating capacity is over 60,000 MW. The 100-MW SPV capacity is not really significant, however, it will anchor financing for additional generating capacity in the range of 400-1,000 MW, which is significant, especially as a component meeting planned load growth.
Market-Oriented Reform	This project will demonstrate competitive bidding within the framework of new regulatory policy designed to encourage private development of renewable resources.

4.4.3 Feasibility Study for Baja California Windpower SPV

Human Capacity Building	This Technical Assistance will provide proof of concept for an entrepreneurial initiative which may be replicated in many municipalities across Mexico, involving large numbers of government employees in the financing of renewable energy projects.
Technology Transfer and Productivity Improvement	The project offers excellent opportunity for a U.S. firm to develop production facilities in Mexico for auxiliary component manufacture: blades, nacelles, towers, and electrical collection and interconnections equipment.
Other	This project offers to introduce a valuable entrepreneurial concept to Mexico by demonstrating financial viability of the self-supply regulatory policy.

ALTERNATIVES: The alternative to the wind energy SPV is for government buildings in Tijuana to continue to purchase power from CFE, which is primarily a fossil-fueled utility.

IMPACT ON U.S. JOBS: Compared to the original plan to export all the wind farm output to the U.S., this project will not change the equipment or its sourcing, but may accelerate the schedule of installation of portions of the project. Aside from timing differences, there is no change in impact on U.S. jobs.

QUALIFICATIONS: *Please refer to Section 4 of the RFP.*

JUSTIFICATION: The Baja California Energy Commission is committed to developing renewable energy resources. USTDA support can accelerate the decision process, result in a better design and more successful project, and improve the likelihood of favorable financing.

TERMS OF REFERENCE: *Please refer to Annex 5 of the RFP.*

4.4.3 Feasibility Study for Baja California Windpower SPV

CAPITAL COSTS ESTIMATES: Though the SPV of the Government of Baja California will not make capital investments, the project may result in large sales to U.S. vendors of equipment and services. In 2011, windfarms are costing approximately \$2,500 per kw of installed capacity. The SPV will provide power sales revenues to a 100-MW phase at a larger windfarm, or about \$250 million of capital costs. Of that, approximately 70%, or \$175 million, comprises the cost of capital equipment and EPC services that may be awarded to U.S. bidders.

The Feasibility should require about 6 months for completion. The total cost of the Feasibility Study is estimated at \$374,000.

Feasibility Study for 1-3 MW Landfill Gas Recovery and Power Generation System

STUDY COMPLETION SCHEDULE

Task Completion Schedule				
Feasibility Study for Baja Windpower 100 MW SPV				
TASK	Months	1	2	3
1.1 Inception Workshop				
1.2 Inception Report				
2.1 Review Existing Documentation				
2.2 Conduct Field Assessments				
2.3 Wind Resource Assessment				
3 Financial Comparison of Wind Power and Grid Power				
4.1 Interconnect and Wheeling Agreements				
4.2 Power Purchase Agreement				
4.3 Tender Documents				
4.4 SPV Formation Documents				
5 Environmental Analysis				
6.1 Regulatory Provisions for Transmission Access and Capacity Payments				
6.2 Tariff Filing				
7 Developmental Impact Assessment				
8 U.S. Sources of Supply				
9 Implementation Plan				
10 Final Report to Grantee and USTDA				

ANNEX 3

USTDA NATIONALITY REQUIREMENTS



U.S. TRADE AND DEVELOPMENT AGENCY
Arlington, VA 22209-2131

NATIONALITY, SOURCE, AND ORIGIN REQUIREMENTS

The purpose of USTDA's nationality, source, and origin requirements is to assure the maximum practicable participation of American contractors, technology, equipment and materials in the prefeasibility, feasibility, and implementation stages of a project.

USTDA STANDARD RULE (GRANT AGREEMENT STANDARD LANGUAGE):

Except as USTDA may otherwise agree, each of the following provisions shall apply to the delivery of goods and services funded by USTDA under this Grant Agreement: (a) for professional services, the Contractor must be either a U.S. firm or U.S. individual; (b) the Contractor may use U.S. subcontractors without limitation, but the use of subcontractors from host country may not exceed twenty percent (20%) of the USTDA Grant amount and may only be used for specific services from the Terms of Reference identified in the subcontract; (c) employees of U.S. Contractor or U.S. subcontractor firms responsible for professional services shall be U.S. citizens or non-U.S. citizens lawfully admitted for permanent residence in the U.S.; (d) goods purchased for implementation of the Study and associated delivery services (e.g., international transportation and insurance) must have their nationality, source and origin in the United States; and (e) goods and services incidental to Study support (e.g., local lodging, food, and transportation) in host country are not subject to the above restrictions. USTDA will make available further details concerning these standards of eligibility upon request.

NATIONALITY:

1) Rule

Except as USTDA may otherwise agree, the Contractor for USTDA funded activities must be either a U.S. firm or a U.S. individual. Prime contractors may utilize U.S.

subcontractors without limitation, but the use of host country subcontractors is limited to 20% of the USTDA grant amount.

2) Application

Accordingly, only a U.S. firm or U.S. individual may submit proposals on USTDA funded activities. Although those proposals may include subcontracting arrangements with host country firms or individuals for up to 20% of the USTDA grant amount, they may not include subcontracts with third country entities. U.S. firms submitting proposals must ensure that the professional services funded by the USTDA grant, to the extent not subcontracted to host country entities, are supplied by employees of the firm or employees of U.S. subcontractor firms who are U.S. individuals.

Interested U.S. firms and consultants who submit proposals must meet USTDA nationality requirements as of the due date for the submission of proposals and, if selected, must continue to meet such requirements throughout the duration of the USTDA-financed activity. These nationality provisions apply to whatever portion of the Terms of Reference is funded with the USTDA grant.

3) Definitions

A "U.S. individual" is (a) a U.S. citizen, or (b) a non-U.S. citizen lawfully admitted for permanent residence in the U.S. (a green card holder).

A "U.S. firm" is a privately owned firm which is incorporated in the U.S., with its principal place of business in the U.S., and which is either (a) more than 50% owned by U.S. individuals, or (b) has been incorporated in the U.S. for more than three (3) years prior to the issuance date of the request for proposals; has performed similar services in the U.S. for that three (3) year period; employs U.S. citizens in more than half of its permanent full-time positions in the U.S.; and has the existing capability in the U.S. to perform the work in question.

A partnership, organized in the U.S. with its principal place of business in the U.S., may also qualify as a "U.S. firm" as would a joint venture organized or incorporated in the United States consisting entirely of U.S. firms and/or U.S. individuals.

A nonprofit organization, such as an educational institution, foundation, or association may also qualify as a "U.S. firm" if it is incorporated in the United States and managed by a governing body, a majority of whose members are U.S. individuals.

SOURCE AND ORIGIN:

1) Rule

In addition to the nationality requirement stated above, any goods (e.g., equipment and materials) and services related to their shipment (e.g., international transportation and insurance) funded under the USTDA Grant Agreement must have their source and origin in the United States, unless USTDA otherwise agrees. However, necessary purchases of goods and project support services which are unavailable from a U.S. source (e.g., local food, housing and transportation) are eligible without specific USTDA approval.

2) Application

Accordingly, the prime contractor must be able to demonstrate that all goods and services purchased in the host country to carry out the Terms of Reference for a USTDA Grant Agreement that were not of U.S. source and origin were unavailable in the United States.

3) Definitions

"Source" means the country from which shipment is made.

"Origin" means the place of production, through manufacturing, assembly or otherwise.

Questions regarding these nationality, source and origin requirements may be addressed to the USTDA Office of General Counsel.

ANNEX 4

**USTDA GRANT AGREEMENT,
INCLUDING MANDATORY CONTRACT CLAUSES**

Mexico 2011-51021A

GRANT AGREEMENT

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This Grant Agreement is entered into between the Government of the United States of America, acting through the U.S. Trade and Development Agency ("USTDA"), and the State Government of Baja California (Gobierno del Estado de Baja California), acting through the State Energy Commission (Comisión Estatal de Energía de Baja California) ("Grantee"). USTDA agrees to provide the Grantee under the terms of this Grant Agreement US\$374,000 ("USTDA Grant") to fund the cost of goods and services required for the preparation of a feasibility study ("Study") on the proposed Baja California Wind Power project ("Project") in Mexico ("Host Country").

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1. USTDA Funding

The funding to be provided under this Grant Agreement shall be used to fund the costs of a contract between the Grantee and the U.S. firm selected by the Grantee ("Contractor") under which the Contractor will perform the Study ("Contract"). Payment to the Contractor will be made directly by USTDA on behalf of the Grantee with the USTDA Grant funds provided under this Grant Agreement.

2. Terms of Reference

The Terms of Reference for the Study ("Terms of Reference") are attached as Annex I and are hereby made a part of this Grant Agreement. The Study will examine the technical, financial, environmental, and other critical aspects of the proposed Project. The Terms of Reference shall also be included in the Contract.

3. Standards of Conduct

USTDA and the Grantee recognize the existence of standards of conduct for public officials, and commercial entities, in their respective countries. The parties to this Grant Agreement and the Contractor shall observe these standards, which include not accepting payment of money or anything of value, directly or indirectly, from any person for the purpose of illegally or improperly inducing anyone to take any action favorable to any party in connection with the Study.

4. Grantee Responsibilities

The Grantee shall undertake its best efforts to provide reasonable support for the Contractor, such as local transportation, office space, and secretarial support.

5. USTDA as Financier

(A) USTDA Approval of Competitive Selection Procedures

Selection of the U.S. Contractor shall be carried out by the Grantee according to its established procedures for the competitive selection of contractors with advance notice of the procurement published online through *Federal Business Opportunities* (www.fedbizopps.gov). Upon request, the Grantee will submit these contracting procedures and related documents to USTDA for information and/or approval.

(B) USTDA Approval of Contractor Selection

The Grantee shall notify USTDA at the address of record set forth in Article 17 below upon selection of the Contractor to perform the Study. Upon approval of this selection by USTDA, the Grantee and the Contractor shall then enter into a contract for performance of the Study. The Grantee shall notify in writing the U.S. firms that submitted unsuccessful proposals to perform the Study that they were not selected.

(C) USTDA Approval of Contract Between Grantee and Contractor

The Grantee and the Contractor shall enter into the Contract for performance of the Study. The Contract, and any amendments thereto, including assignments and changes in the Terms of Reference, must be approved by USTDA in writing. To expedite this approval, the Grantee (or the Contractor on the Grantee's behalf) shall transmit to USTDA, at the address set forth in Article 17 below, a photocopy of an English language version of the signed Contract or a final negotiated draft version of the Contract.

(D) USTDA Not a Party to the Contract

It is understood by the parties that USTDA has reserved certain rights such as, but not limited to, the right to approve the terms of the Contract and any amendments thereto, including assignments, the selection of all contractors, the Terms of Reference, the Final Report (as defined in Clause I of Annex II), and any and all documents related to any contract funded under the Grant Agreement. The parties hereto further understand and agree that USTDA, in reserving any or all of the foregoing approval rights, has acted solely as a financing entity to assure the proper use of United States Government funds, and that any decision by USTDA to exercise or refrain from exercising these approval rights shall be made as a financier in the course of funding the Study and shall not be construed as making USTDA a party to the Contract. The parties hereto understand and agree that USTDA may, from time to time, exercise the foregoing approval rights, or discuss matters related to these rights and the Project with the parties to the Contract or any subcontract, jointly or separately, without thereby incurring any responsibility or liability to such parties. Any approval or failure to approve by USTDA shall not bar the Grantee or USTDA from asserting any

right they might have against the Contractor, or relieve the Contractor of any liability which the Contractor might otherwise have to the Grantee or USTDA.

(E) Grant Agreement Controlling

Regardless of USTDA approval, the rights and obligations of any party to the Contract or any subcontract thereunder must be consistent with this Grant Agreement. In the event of any inconsistency between the Grant Agreement and the Contract or any subcontract funded by the Grant Agreement, the Grant Agreement shall be controlling.

6. Disbursement Procedures

(A) USTDA Approval of Contract Required

USTDA will make disbursements of Grant funds directly to the Contractor only after USTDA approves the Contract.

(B) Contractor Invoice Requirements

The Grantee should request disbursement of funds by USTDA to the Contractor for performance of the Study by submitting invoices in accordance with the procedures set forth in the USTDA Mandatory Clauses in Annex II.

7. Effective Date

The effective date of this Grant Agreement ("Effective Date") shall be the date of signature by both parties or, if the parties sign on different dates, the date of the last signature.

8. Study Schedule

(A) Study Completion Date

The completion date for the Study, which is December 31, 2012, is the date by which the parties estimate that the Study will have been completed.

(B) Time Limitation on Disbursement of USTDA Grant Funds

Except as USTDA may otherwise agree, (a) no USTDA funds may be disbursed under this Grant Agreement for goods and services which are provided prior to the Effective Date of the Grant Agreement; and (b) all funds made available under the Grant Agreement must be disbursed within four (4) years from the Effective Date of the Grant Agreement.

9. USTDA Mandatory Clauses

All contracts funded under this Grant Agreement shall include the USTDA mandatory clauses set forth in Annex II to this Grant Agreement. All subcontracts funded or partially funded with USTDA Grant funds shall include the USTDA mandatory clauses, except for clauses B(1), G, H, I, and J.

10. Use of U.S. Carriers

(A) Air

Transportation by air of persons or property funded under the Grant Agreement shall be on U.S. flag carriers in accordance with the Fly America Act, 49 U.S.C. 40118, to the extent service by such carriers is available, as provided under applicable U.S. Government regulations.

(B) Marine

Transportation by sea of property funded under the Grant Agreement shall be on U.S. carriers in accordance with U.S. cargo preference law.

11. Nationality, Source, and Origin

Except as USTDA may otherwise agree, the following provisions shall govern the delivery of goods and services funded by USTDA under the Grant Agreement: (a) for professional services, the Contractor must be either a U.S. firm or U.S. individual; (b) the Contractor may use U.S. subcontractors without limitation, but the use of subcontractors from Host Country may not exceed twenty percent (20%) of the USTDA Grant amount and may only be used for specific services from the Terms of Reference identified in the subcontract; (c) employees of U.S. Contractor or U.S. subcontractor firms responsible for professional services shall be U.S. citizens or non-U.S. citizens lawfully admitted for permanent residence in the U.S.; (d) goods purchased for performance of the Study and associated delivery services (e.g., international transportation and insurance) must have their nationality, source, and origin in the United States; and (e) goods and services incidental to Study support (e.g., local lodging, food, and transportation) in Host Country are not subject to the above restrictions. USTDA will make available further details concerning these provisions upon request.

12. Taxes

USTDA funds provided under the Grant Agreement shall not be used to pay any taxes, tariffs, duties, fees, or other levies imposed under laws in effect in Host Country. Neither the Grantee nor the Contractor will seek reimbursement from USTDA for such taxes, tariffs, duties, fees, or other levies.

13. Cooperation Between Parties and Follow-Up

The parties will cooperate to assure that the purposes of the Grant Agreement are accomplished. For five (5) years following receipt by USTDA of the Final Report, the Grantee agrees to respond to any reasonable inquiries from USTDA about the status or results of the Project, and upon receipt by the Grantee of the Final Report, will designate (by both title and organization) a point of contact for any such inquiries.

14. Implementation Letters

To assist the Grantee in the implementation of the Study, USTDA may, from time to time, issue implementation letters that will provide additional information about matters covered by the Grant Agreement. The parties may also use jointly agreed upon implementation letters to confirm and record their mutual understanding of matters covered by the Grant Agreement.

15. Recordkeeping and Audit

The Grantee agrees to maintain books, records, and other documents relating to the Study and the Grant Agreement adequate to demonstrate implementation of its responsibilities under the Grant Agreement, including the selection of contractors, receipt and approval of contract deliverables, and approval or disapproval of contractor invoices for payment by USTDA. Such books, records, and other documents shall be separately maintained for three (3) years after the date of the final disbursement by USTDA. The Grantee shall afford USTDA or its authorized representatives the opportunity at reasonable times to review books, records, and other documents relating to the Study and the Grant Agreement.

16. Representation of Parties

For all purposes relevant to the Grant Agreement, the Government of the United States of America will be represented by the U.S. Ambassador to Host Country or USTDA and Grantee will be represented by the Director General of the State Energy Commission. The parties hereto may, by written notice, designate additional representatives for all purposes under the Grant Agreement.

17. Addresses of Record for Parties

Any notice, request, document, or other communication submitted by either party to the other under the Grant Agreement shall be in writing or through a wire or electronic medium which produces a tangible record of the transmission, such as a telegram, cable, or facsimile, and will be deemed duly given or sent when delivered to such party at the following:

To: Director General
Comisión Estatal de Energía de Baja California
Ave. Pioneros 1060, Centro Cívico
Mexicali, Baja California
C.P. 21100
MEXICO

Phone: + (52-686) 555-6742
Fax: + (52-686) 555-6807
E-Mail: DMunoz@energiabc.gob.mx

To: U.S. Trade and Development Agency
1000 Wilson Boulevard, Suite 1600
Arlington, Virginia 22209-3901
USA

Phone: (703) 875-4357
Fax: (703) 875-4009

All such communications shall be in English, unless the parties otherwise agree in writing. In addition, the Grantee shall provide the Commercial Section of the U.S. Embassy in Host Country with a copy of each communication sent to USTDA.

Any communication relating to this Grant Agreement shall include the following fiscal data:

Appropriation No.: 1111/121001
Activity No.: 2011-51021A
Reservation No.: 2011205
Grant No.: GH201151205

18. Termination

Either party may terminate the Grant Agreement by giving the other party thirty (30) days advance written notice. The termination of the Grant Agreement will end any obligations of the parties to provide financial or other resources for the Study, except for payments which they are committed to make pursuant to noncancellable commitments entered into with third parties prior to the written notice of termination.

19. Non-waiver of Rights and Remedies

No delay in exercising any right or remedy accruing to either party in connection with the Grant Agreement shall be construed as a waiver of such right or remedy.

20. U.S. Technology and Equipment

By funding this Study, USTDA seeks to promote the Project objectives of the Host Country through the use of U.S. technology, goods, and services. In recognition of this purpose, the Grantee agrees that it will allow U.S. suppliers to compete in the procurement of technology, goods, and services needed for Project implementation.

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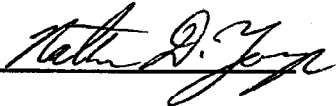
IN WITNESS WHEREOF, the Government of the United States of America and the State Government of Baja California, each acting through its duly authorized representative, have caused this Grant Agreement to be signed in the English and Spanish languages in their names and delivered as of the day and year written below. While both the English and Spanish language versions are valid, the English language version shall govern.

For the Government of the
United States of America

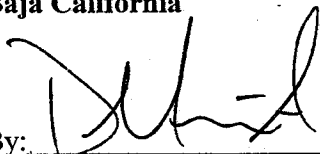
By: 

Date: 06/29/11

Witnessed:

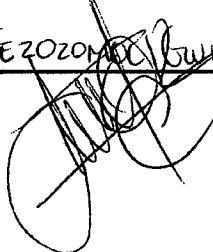
By: 

For the State Government of
Baja California

By: 
David Munoz Andrade

Date: 06/24/2011

Witnessed:

By: TEZOZOMC Buitel ORTIZ


Annex I -- Terms of Reference

Annex II -- USTDA Mandatory Clauses

Annex I

Terms of Reference

Objective

The objective of the feasibility study ("Study") for the Baja California Wind Power Project ("Project") in Mexico is to enable the supply of 100 MW of wind power to government office buildings and facilities in the State of Baja California. The Study will allow the State Government of Baja California (Gobierno del Estado de Baja California), acting through the State Energy Commission (Comisión Estatal de Energía de Baja California) ("Grantee"), to assess available wind power resources, verify the power demand profile, evaluate the financial value of wind power in comparison to existing power supply arrangements, and draft legal documents and agreements for Project implementation.

General Considerations for Deliverables and Documents

The U.S. firm selected by the Grantee to perform the Study ("Contractor") shall undertake a quality control review process, including a technical and editorial review, of all deliverables and documents submitted to the Grantee to ensure readability, accuracy, and consistency. The interim deliverables specified in these Terms of Reference shall serve to keep the Grantee informed about the Contractor's work on the Study and to ensure that the Contractor's findings are acceptable to the Grantee before critical decisions are made on the Study. The Contractor shall submit monthly progress reports to the Grantee. The Contractor shall submit all deliverables and documents to the Grantee in English and Spanish.

Activities

Task 1: Kick-Off Meeting and Inception Report

Subtask 1.1: Kick-Off Meeting

The Contractor shall meet with the Grantee to discuss the details of the technical approach and work plan, including reporting requirements, the methodology for completing the Terms of Reference, and the working relationships between personnel engaged in the Study. The Contractor shall also conduct site inspections, obtain copies of available information, and make arrangements for the collection of additional field data, as needed.

The Grantee shall provide temporary working and meeting facilities to the Contractor. The Grantee shall also provide copies of current Mexican guidelines and policies for wheeling tariffs and the interconnection and licensing of wind power generating plants.

Subtask 1.2: Inception Report

Following the kick-off meeting, the Contractor shall prepare an inception report that includes a list of attendees, topics discussed, and any agreed-upon refinements in the technical approach and work plan. As part of the inception report, the Contractor shall perform a gap analysis based on the available information.

Interim Deliverable No. 1:

The Contractor shall prepare and submit to the Grantee an interim report detailing the findings from Task 1.

Task 2: Technical Analysis

Subtask 2.1: Available Documentation

The Contractor shall review available information and studies regarding the legal, regulatory, technical, economic, social, and environmental aspects of the Project. The Contractor shall review any preliminary studies developed by the Grantee.

Subtask 2.2: Field Assessments

The Contractor shall assess the demand data compiled by the Grantee for a set of state government office buildings and facilities with approximately 100 MW of peak demand that could be serviced by wind generation. The Contractor shall determine the characteristic daily demand profile for each month of the year.

Subtask 2.3: Wind Resource Assessments

The Contractor shall assess the daily generation profiles available from several candidate wind sites under development in the Rumorosa region of the municipality of Tecate, Baja California that could potentially interconnect with the Comisión Federal de Electricidad ("CFE") grid to wheel power to Baja California. The value of the resource to the Grantee depends on how well the wind resource matches daily demand peaks. It is anticipated that a special purpose vehicle ("SPV") would enter into a contract for 100 MW of generation capacity and that wind production will be less than peak for much of the time.

A period of instrumented wind resource measurement is not required to complete this subtask. The Contractor shall obtain site resource data from various wind farm developers and potential bidders.

Task 3: Financial Analysis

The Contractor shall calculate the potential savings to the Grantee from purchasing wind power instead of purchasing power from the CFE grid. The Contractor's analysis shall include CFE tariff rates for state government office buildings and facilities in the SPV, seasonal and daily time-of-use rates, capacity payments, available provisions for banking renewable energy on the CFE grid, and wheeling charges from the likely points of interconnection to the CFE grid to determine the price the Grantee should be willing to pay for wind power. The Contractor shall develop a pro forma spreadsheet analysis of the Project for a period of not less than 20 years showing energy cost savings to the

Grantee under a range of potential Power Purchase Agreement ("PPA") terms for capacity and energy charges.

Task 4: Legal Documents

Subtask 4.1: Interconnection and Wheeling Agreements

The Contractor shall determine the required format for interconnection and wheeling agreements with CFE and shall provide to the Grantee all technical and financial information needed to apply for such agreements.

Subtask 4.2: Power Purchase Agreement

The Contractor shall prepare a draft PPA with terms suitable for the SPV to enter into a long-term agreement with a wind farm developer for 100 MW of wind generation. The terms of the PPA shall be consistent with the requirements of the interconnection and wheeling agreements considered in Subtask 4.1. The Contractor shall calculate the capacity and energy charges necessary for the PPA to be financially acceptable to the Grantee and shall advise the Grantee on negotiating strategies to optimize the value of the PPA. The Contractor shall provide reasonable estimates of the amount of time and legal expenses required to negotiate the PPA.

Subtask 4.3: Tender Documents

The Contractor shall prepare draft tender documents for the SPV to solicit bids from wind farm developers on the basis of the draft PPA developed in Subtask 4.2.

Subtask 4.4: SPV Formation Documents

The Contractor shall prepare draft legal documents for the formation of the SPV in compliance with the laws of the Government of Mexico and the State Government of Baja California.

Interim Deliverable No. 2:

The Contractor shall prepare and submit to the Grantee an interim report detailing the findings from Task 2-4.

Task 5: Preliminary Environmental Impact Assessment

The Contractor shall conduct a preliminary review of the Project's environmental impact and environmental compliance with reference to local requirements and those of multilateral development banks (such as the World Bank and Inter-American Development Bank). This review shall identify potential negative impacts, discuss the extent to which they can be mitigated, and develop plans for a full environmental impact assessment in anticipation of the Project moving forward to the implementation stage. In particular, the Contractor shall identify any steps that the Grantee or other interested parties will need to undertake subsequent to the completion of the Study and prior to Project implementation.

While wind farm developers have the primary responsibility for completing full environmental impact assessments, the Contractor shall assess the environmental advantages of wind power as compared to the estimated generation matrix of the power supplied from the CFE grid.

Task 6: Regulatory Review

Subtask 6.1: Regulatory Provisions for Transmission Access and Capacity Payments

The Contractor shall verify that the proposed agreements between the Grantee and the wind power suppliers would qualify for regulatory provisions that favor renewable generation for transmission access and capacity payments.

Subtask 6.2: Tariff Filing

To assist the Grantee in filing for a tariff for renewable power wheeling over the CFE grid, the Contractor shall provide documentation and calculations in accordance with Mexico's legal framework and other economic and regulatory requirements. The Contractor shall use the financial analysis developed in Task 3 as a component of the tariff calculation.

Task 7: Development Impact Assessment

For the benefit of those interested in the Project, the Contractor shall assess the development benefits associated with the Project and the methodology for measuring those benefits. The assessment shall include examples of the development benefits that would be expected in the Host Country if the Project is implemented as outlined in the Study. The Contractor shall focus on examples from the categories listed below and shall develop a methodology for assessing these impacts over time. The Contractor shall only list benefits in the categories that are applicable to the Project. The categories to be considered are as follows:

- **Infrastructure:** The Contractor shall estimate the expected scale of infrastructure development and improvements, such as transmission and interconnection lines.
- **Market-Oriented Reforms:** The Contractor shall provide a description of any recommended regulations, laws, or institutional changes that would facilitate Project implementation, more transparent regulatory systems, or increased competition.
- **Human Capacity Building:** The Contractor shall estimate the number and type of jobs that would be created if the Project is implemented. Comment on any prospective training recommended (the training needed after and as a result of the Project), including an estimate of the number of persons to be trained, type of training needed, and the desired outcome of the training.
- **Technology Transfer and Productivity Enhancement:** The Contractor shall provide a description of any efficiency gains or productivity benefits resulting from Project implementation, as well as the introduction of any new technologies.
- **Other:** The Contractor shall identify any other developmental benefits of the Project that are not captured in the four categories listed above, including any

spin-off or demonstration effects such as enhanced economic growth, increased investment, or indirect job creation.

Task 8: U.S. Sources of Supply

The Contractor shall identify prospective U.S. suppliers of equipment and services for the Project in accordance with Clause I of Annex II of the Grant Agreement. The Contractor shall identify the potential value of U.S. exports of equipment and services and prepare a list of U.S. suppliers that outlines prospective U.S. sources for procurement of goods and services related to Project implementation. The list shall include business name, point of contact, address, telephone and fax numbers, and a general description of products and services that may be procured.

Task 9: Implementation Plan

The Contractor shall develop an implementation plan, including, but not limited to, schedules and timelines for all Project-related activities, contracts, agreements, staffing and training, regulatory consent, financing, and ownership and management decisions.

The Contractor's scope of responsibility ends with completion of the draft tender documents. If the Grantee requires further services for bid evaluation or subsequent design changes, the Grantee must negotiate separate payment for such services. The Contractor is not responsible for any work associated with publicizing the tender documents or evaluating proposals under any procurement-related activities for this Project.

Interim Deliverable No. 3:

The Contractor shall prepare and submit to the Grantee an interim report detailing the findings from Tasks 5-9.

Task 10: Final Report

The Contractor shall prepare and deliver to the Grantee and USTDA a substantive and comprehensive final report of all work performed under these Terms of Reference ("Final Report"). The Final Report shall be organized according to the above tasks, and shall include all deliverables and documents that have been provided to the Grantee. The Final Report shall be prepared in accordance with Clause I of Annex II of the Grant Agreement. The Final Report shall be prepared in English and Spanish.

Notes:

- (1) The Contractor is responsible for compliance with U.S. export licensing requirements, if applicable, in the performance of the Terms of Reference.
- (2) The Contractor and the Grantee shall be careful to ensure that the public version of the Final Report contains no security or confidential information.

- (3) The Grantee and USTDA shall have an irrevocable, worldwide, royalty-free, non-exclusive right to use and distribute the Final Report and all work product that is developed under these Terms of Reference.
- (4) The Grantee shall be responsible for all procurement-related final decisions.

Annex II

USTDA Mandatory Contract Clauses

A. USTDA Mandatory Clauses Controlling

The parties to this contract acknowledge that this contract is funded in whole or in part by the U.S. Trade and Development Agency ("USTDA") under the Grant Agreement between the Government of the United States of America, acting through USTDA, and the State Government of Baja California (Gobierno del Estado de Baja California), acting through the State Energy Commission (Comisión Estatal de Energía de Baja California) ("Client"), dated _____ ("Grant Agreement"). The Client has selected _____ ("Contractor") to perform the feasibility study ("Study") for the Baja California Wind Power project ("Project") in Mexico ("Host Country"). Notwithstanding any other provisions of this contract, the following USTDA mandatory contract clauses shall govern. All subcontracts entered into by Contractor funded or partially funded with USTDA Grant funds shall include these USTDA mandatory contract clauses, except for clauses B(1), G, H, I, and J. In addition, in the event of any inconsistency between the Grant Agreement and any contract or subcontract thereunder, the Grant Agreement shall be controlling.

B. USTDA as Financier

(1) USTDA Approval of Contract

All contracts funded under the Grant Agreement, and any amendments thereto, including assignments and changes in the Terms of Reference, must be approved by USTDA in writing in order to be effective with respect to the expenditure of USTDA Grant funds. USTDA will not authorize the disbursement of USTDA Grant funds until the contract has been formally approved by USTDA or until the contract conforms to modifications required by USTDA during the contract review process.

(2) USTDA Not a Party to the Contract

It is understood by the parties that USTDA has reserved certain rights such as, but not limited to, the right to approve the terms of this contract and amendments thereto, including assignments, the selection of all contractors, the Terms of Reference, the Final Report, and any and all documents related to any contract funded under the Grant Agreement. The parties hereto further understand and agree that USTDA, in reserving any or all of the foregoing approval rights, has acted solely as a financing entity to assure the proper use of United States Government funds, and that any decision by USTDA to exercise or refrain from exercising these approval rights shall be made as a financier in the course of financing the Study and shall not be construed as making USTDA a party to the contract. The parties hereto understand and agree that USTDA may, from time to time, exercise the foregoing approval rights, or discuss matters related to these rights and the Project with the parties to the contract

or any subcontract, jointly or separately, without thereby incurring any responsibility or liability to such parties. Any approval or failure to approve by USTDA shall not bar the Client or USTDA from asserting any right they might have against the Contractor, or relieve the Contractor of any liability which the Contractor might otherwise have to the Client or USTDA.

C. Nationality, Source, and Origin

Except as USTDA may otherwise agree, the following provisions shall govern the delivery of goods and services funded by USTDA under the Grant Agreement: (a) for professional services, the Contractor must be either a U.S. firm or U.S. individual; (b) the Contractor may use U.S. subcontractors without limitation, but the use of subcontractors from Host Country may not exceed twenty percent (20%) of the USTDA Grant amount and may only be used for specific services from the Terms of Reference identified in the subcontract; (c) employees of U.S. Contractor or U.S. subcontractor firms responsible for professional services shall be U.S. citizens or non-U.S. citizens lawfully admitted for permanent residence in the U.S.; (d) goods purchased for performance of the Study and associated delivery services (e.g., international transportation and insurance) must have their nationality, source, and origin in the United States; and (e) goods and services incidental to Study support (e.g., local lodging, food, and transportation) in Host Country are not subject to the above restrictions. USTDA will make available further details concerning these provisions upon request.

D. Recordkeeping and Audit

The Contractor and subcontractors funded under the Grant Agreement shall maintain, in accordance with generally accepted accounting procedures, books, records, and other documents, sufficient to reflect properly all transactions under or in connection with the contract. These books, records, and other documents shall clearly identify and track the use and expenditure of USTDA funds, separately from other funding sources. Such books, records, and documents shall be maintained during the contract term and for a period of three (3) years after final disbursement by USTDA. The Contractor and subcontractors shall afford USTDA, or its authorized representatives, the opportunity at reasonable times for inspection and audit of such books, records, and other documentation.

E. U.S. Carriers

(1) Air

Transportation by air of persons or property funded under the Grant Agreement shall be on U.S. flag carriers in accordance with the Fly America Act, 49 U.S.C. 40118, to the extent service by such carriers is available, as provided under applicable U.S. Government regulations.

(2) Marine

Transportation by sea of property funded under the Grant Agreement shall be on U.S. carriers in accordance with U.S. cargo preference law.

F. Workman's Compensation Insurance

The Contractor shall provide adequate Workman's Compensation Insurance coverage for work performed under this Contract.

G. Reporting Requirements

The Contractor shall advise USTDA by letter as to the status of the Project on March 1st annually for a period of two (2) years after completion of the Study. In addition, if at any time the Contractor receives follow-on work from the Client, the Contractor shall so notify USTDA and designate the Contractor's contact point including name, telephone, and fax number. Since this information may be made publicly available by USTDA, any information which is confidential shall be designated as such by the Contractor and provided separately to USTDA. USTDA will maintain the confidentiality of such information in accordance with applicable law.

H. Disbursement Procedures

(1) USTDA Approval of Contract

Disbursement of Grant funds will be made only after USTDA approval of this contract. To make this review in a timely fashion, USTDA must receive from either the Client or the Contractor a photocopy of an English language version of a signed contract or a final negotiated draft version to the attention of the General Counsel's office at USTDA's address listed in Clause M below.

(2) Payment Schedule Requirements

A payment schedule for disbursement of Grant funds to the Contractor shall be included in this Contract. Such payment schedule must conform to the following USTDA requirements: (1) up to twenty percent (20%) of the total USTDA Grant amount may be used as a mobilization payment; (2) all other payments, with the exception of the final payment, shall be based upon contract performance milestones; and (3) the final payment may be no less than fifteen percent (15%) of the total USTDA Grant amount, payable upon receipt by USTDA of an approved Final Report in accordance with the specifications and quantities set forth in Clause I below. Invoicing procedures for all payments are described below.

(3) Contractor Invoice Requirements

USTDA will make all disbursements of USTDA Grant funds directly to the Contractor. The Contractor must provide USTDA with an ACH Vendor Enrollment Form (available from USTDA) with the first invoice. The Client shall request disbursement of funds by USTDA to the Contractor for performance of the contract by submitting the following to USTDA:

(a) Contractor's Invoice

The Contractor's invoice shall include reference to an item listed in the Contract payment schedule, the requested payment amount, and an appropriate certification by the Contractor, as follows:

(i) For a mobilization payment (if any):

"As a condition for this mobilization payment, the Contractor certifies that it will perform all work in accordance with the terms of its Contract with the Client. To the extent that the Contractor does not comply with the terms and conditions of the Contract, including the USTDA mandatory provisions contained therein, it will, upon USTDA's request, make an appropriate refund to USTDA."

(ii) For contract performance milestone payments:

"The Contractor has performed the work described in this invoice in accordance with the terms of its contract with the Client and is entitled to payment thereunder. To the extent the Contractor has not complied with the terms and conditions of the Contract, including the USTDA mandatory provisions contained therein, it will, upon USTDA's request, make an appropriate refund to USTDA."

(iii) For final payment:

"The Contractor has performed the work described in this invoice in accordance with the terms of its contract with the Client and is entitled to payment thereunder. Specifically, the Contractor has submitted the Final Report to the Client, as required by the Contract, and received the Client's approval of the Final Report. To the extent the Contractor has not complied with the terms and conditions of the Contract, including the USTDA mandatory provisions contained therein, it will, upon USTDA's request, make an appropriate refund to USTDA."

(b) Client's Approval of the Contractor's Invoice

(i) The invoice for a mobilization payment must be approved in writing by the Client.

(ii) For contract performance milestone payments, the following certification by the Client must be provided on the invoice or separately:

"The services for which disbursement is requested by the Contractor have been performed satisfactorily, in accordance with applicable Contract provisions and the terms and conditions of the USTDA Grant Agreement."

(iii) For final payment, the following certification by the Client must be provided on the invoice or separately:

"The services for which disbursement is requested by the Contractor have been performed satisfactorily, in accordance with applicable Contract provisions and terms and conditions of the USTDA Grant Agreement. The Final Report submitted by the Contractor has been reviewed and approved by the Client."

(c) USTDA Address for Disbursement Requests

Requests for disbursement shall be submitted by courier or mail to the attention of the Finance Department at USTDA's address listed in Clause M below.

(4) Termination

In the event that the Contract is terminated prior to completion, the Contractor will be eligible, subject to USTDA approval, for reasonable and documented costs which have been incurred in performing the Terms of Reference prior to termination, as well as reasonable wind down expenses. Reimbursement for such costs shall not exceed the total amount of undisbursed Grant funds. Likewise, in the event of such termination, USTDA is entitled to receive from the Contractor all USTDA Grant funds previously disbursed to the Contractor (including but not limited to mobilization payments) which exceed the reasonable and documented costs incurred in performing the Terms of Reference prior to termination.

I. USTDA Final Report

(1) Definition

"Final Report" shall mean the Final Report described in the attached Annex I Terms of Reference or, if no such "Final Report" is described therein, "Final Report" shall mean a substantive and comprehensive report of work performed in accordance with the attached Annex I Terms of Reference, including any documents delivered to the Client.

(2) Final Report Submission Requirements

The Contractor shall provide the following to USTDA:

(a) One (1) complete version of the Final Report for USTDA's records. This version shall have been approved by the Client in writing and must be in the English language. It is the responsibility of the Contractor to ensure that confidential information, if any, contained in this version be clearly marked. USTDA will maintain the confidentiality of such information in accordance with applicable law.

and

(b) One (1) copy of the Final Report suitable for public distribution ("Public Version"). The Public Version shall have been approved by the Client in writing and must be in the English language. As this version will be available for public distribution, it must not contain any confidential information. If the report in (a) above contains no confidential information, it may be used as the Public Version. In any event, the Public Version must be informative and contain sufficient Project detail to be useful to prospective equipment and service providers.

and

(c) Two (2) CD-ROMs, each containing a complete copy of the Public Version of the Final Report. The electronic files on the CD-ROMs shall be submitted in a commonly accessible read-only format. As these CD-ROMs will be available for public distribution, they must not contain any confidential information. It is the responsibility of the Contractor to ensure that no confidential information is contained on the CD-ROMs.

The Contractor shall also provide one (1) copy of the Public Version of the Final Report to the Foreign Commercial Service Officer or the Economic Section of the U.S. Embassy in Host Country for informational purposes.

(3) Final Report Presentation

All Final Reports submitted to USTDA must be paginated and include the following:

(a) The front cover of every Final Report shall contain the name of the Client, the name of the Contractor who prepared the report, a report title, USTDA's logo, and USTDA's mailing and delivery addresses. If the complete version of the Final Report contains confidential information, the Contractor shall be responsible for labeling the front cover of that version of the Final Report with the term "Confidential Version". The Contractor shall be responsible for labeling the front cover of the Public Version of the Final Report with the term "Public Version." The front cover of every Final Report shall also contain the following disclaimer:

"This report was funded by the U.S. Trade and Development Agency (USTDA), an agency of the U.S. Government. The opinions, findings, conclusions or recommendations expressed in this document are those of the author(s) and do not necessarily represent the official position or policies of USTDA. USTDA makes no representation about, nor does it accept responsibility for, the accuracy or completeness of the information contained in this report."

(b) The inside front cover of every Final Report shall contain USTDA's logo, USTDA's mailing and delivery addresses, and USTDA's mission statement. Camera-ready copy of USTDA Final Report specifications will be available from USTDA upon request.

(c) The Contractor shall affix to the front of the CD-ROM a label identifying the Host Country, USTDA Activity Number, the name of the Client, the name of the Contractor who prepared the report, a report title, and the following language:

"The Contractor certifies that this CD-ROM contains the Public Version of the Final Report and that all contents are suitable for public distribution."

(d) The Contractor and any subcontractors that perform work pursuant to the Grant Agreement must be clearly identified in the Final Report. Business name, point of contact, address, telephone, and fax numbers shall be included for Contractor and each subcontractor.

(e) The Final Report, while aiming at optimum specifications and characteristics for the Project, shall identify the availability of prospective U.S. sources of supply. Business name, point of contact, address, telephone, and fax numbers shall be included for each commercial source.

(f) The Final Report shall be accompanied by a letter or other notation by the Client which states that the Client approves the Final Report. A certification by

the Client to this effect provided on or with the invoice for final payment will meet this requirement.

J. Modifications

All changes, modifications, assignments or amendments to this contract, including the appendices, shall be made only by written agreement by the parties hereto, subject to written USTDA approval.

K. Study Schedule

(1) Study Completion Date

The completion date for the Study, which is December 31, 2012, is the date by which the parties estimate that the Study will have been completed.

(2) Time Limitation on Disbursement of USTDA Grant Funds

Except as USTDA may otherwise agree, (a) no USTDA funds may be disbursed under this contract for goods and services which are provided prior to the Effective Date of the Grant Agreement; and (b) all funds made available under the Grant Agreement must be disbursed within four (4) years from the Effective Date of the Grant Agreement.

L. Business Practices

The Contractor agrees not to pay, promise to pay, or authorize the payment of any money or anything of value, directly or indirectly, to any person (whether a governmental official or private individual) for the purpose of illegally or improperly inducing anyone to take any action favorable to any party in connection with the Study. The Client agrees not to receive any such payment. The Contractor and the Client agree that each will require that any agent or representative hired to represent them in connection with the Study will comply with this paragraph and all laws which apply to activities and obligations of each party under this Contract, including but not limited to those laws and obligations dealing with improper payments as described above.

M. USTDA Address and Fiscal Data

Any communication with USTDA regarding this Contract shall be sent to the following address and include the fiscal data listed below:

U.S. Trade and Development Agency
1000 Wilson Boulevard, Suite 1600
Arlington, Virginia 22209-3901
USA

Phone: (703) 875-4357
Fax: (703) 875-4009

Fiscal Data:

Appropriation No.: 1111/121001
Activity No.: 2011-51021A
Reservation No.: 2011205
Grant No.: GH201151205

N. Definitions

All capitalized terms not otherwise defined herein shall have the meaning set forth in the Grant Agreement.

O. Taxes

USTDA funds provided under the Grant Agreement shall not be used to pay any taxes, tariffs, duties, fees, or other levies imposed under laws in effect in Host Country. Neither the Client nor the Contractor will seek reimbursement from USTDA for such taxes, tariffs, duties, fees, or other levies.

A N N E X 5

**TERMS OF REFERENCE
(FROM USTDA GRANT AGREEMENT)**

Annex I

Terms of Reference

Objective

The objective of the feasibility study ("Study") for the Baja California Wind Power Project ("Project") in Mexico is to enable the supply of 100 MW of wind power to government office buildings and facilities in the State of Baja California. The Study will allow the State Government of Baja California (Gobierno del Estado de Baja California), acting through the State Energy Commission (Comisión Estatal de Energía de Baja California) ("Grantee"), to assess available wind power resources, verify the power demand profile, evaluate the financial value of wind power in comparison to existing power supply arrangements, and draft legal documents and agreements for Project implementation.

General Considerations for Deliverables and Documents

The U.S. firm selected by the Grantee to perform the Study ("Contractor") shall undertake a quality control review process, including a technical and editorial review, of all deliverables and documents submitted to the Grantee to ensure readability, accuracy, and consistency. The interim deliverables specified in these Terms of Reference shall serve to keep the Grantee informed about the Contractor's work on the Study and to ensure that the Contractor's findings are acceptable to the Grantee before critical decisions are made on the Study. The Contractor shall submit monthly progress reports to the Grantee. The Contractor shall submit all deliverables and documents to the Grantee in English and Spanish.

Activities

Task 1: Kick-Off Meeting and Inception Report

Subtask 1.1: Kick-Off Meeting

The Contractor shall meet with the Grantee to discuss the details of the technical approach and work plan, including reporting requirements, the methodology for completing the Terms of Reference, and the working relationships between personnel engaged in the Study. The Contractor shall also conduct site inspections, obtain copies of available information, and make arrangements for the collection of additional field data, as needed.

The Grantee shall provide temporary working and meeting facilities to the Contractor. The Grantee shall also provide copies of current Mexican guidelines and policies for wheeling tariffs and the interconnection and licensing of wind power generating plants.

Subtask 1.2: Inception Report

Following the kick-off meeting, the Contractor shall prepare an inception report that includes a list of attendees, topics discussed, and any agreed-upon refinements in the technical approach and work plan. As part of the inception report, the Contractor shall perform a gap analysis based on the available information.

Interim Deliverable No. 1:

The Contractor shall prepare and submit to the Grantee an interim report detailing the findings from Task 1.

Task 2: Technical Analysis

Subtask 2.1: Available Documentation

The Contractor shall review available information and studies regarding the legal, regulatory, technical, economic, social, and environmental aspects of the Project. The Contractor shall review any preliminary studies developed by the Grantee.

Subtask 2.2: Field Assessments

The Contractor shall assess the demand data compiled by the Grantee for a set of state government office buildings and facilities with approximately 100 MW of peak demand that could be serviced by wind generation. The Contractor shall determine the characteristic daily demand profile for each month of the year.

Subtask 2.3: Wind Resource Assessments

The Contractor shall assess the daily generation profiles available from several candidate wind sites under development in the Rumorosa region of the municipality of Tecate, Baja California that could potentially interconnect with the Comisión Federal de Electricidad ("CFE") grid to wheel power to Baja California. The value of the resource to the Grantee depends on how well the wind resource matches daily demand peaks. It is anticipated that a special purpose vehicle ("SPV") would enter into a contract for 100 MW of generation capacity and that wind production will be less than peak for much of the time.

A period of instrumented wind resource measurement is not required to complete this subtask. The Contractor shall obtain site resource data from various wind farm developers and potential bidders.

Task 3: Financial Analysis

The Contractor shall calculate the potential savings to the Grantee from purchasing wind power instead of purchasing power from the CFE grid. The Contractor's analysis shall include CFE tariff rates for state government office buildings and facilities in the SPV, seasonal and daily time-of-use rates, capacity payments, available provisions for banking renewable energy on the CFE grid, and wheeling charges from the likely points of interconnection to the CFE grid to determine the price the Grantee should be willing to pay for wind power. The Contractor shall develop a pro forma spreadsheet analysis of the Project for a period of not less than 20 years showing energy cost savings to the

Grantee under a range of potential Power Purchase Agreement ("PPA") terms for capacity and energy charges.

Task 4: Legal Documents

Subtask 4.1: Interconnection and Wheeling Agreements

The Contractor shall determine the required format for interconnection and wheeling agreements with CFE and shall provide to the Grantee all technical and financial information needed to apply for such agreements.

Subtask 4.2: Power Purchase Agreement

The Contractor shall prepare a draft PPA with terms suitable for the SPV to enter into a long-term agreement with a wind farm developer for 100 MW of wind generation. The terms of the PPA shall be consistent with the requirements of the interconnection and wheeling agreements considered in Subtask 4.1. The Contractor shall calculate the capacity and energy charges necessary for the PPA to be financially acceptable to the Grantee and shall advise the Grantee on negotiating strategies to optimize the value of the PPA. The Contractor shall provide reasonable estimates of the amount of time and legal expenses required to negotiate the PPA.

Subtask 4.3: Tender Documents

The Contractor shall prepare draft tender documents for the SPV to solicit bids from wind farm developers on the basis of the draft PPA developed in Subtask 4.2.

Subtask 4.4: SPV Formation Documents

The Contractor shall prepare draft legal documents for the formation of the SPV in compliance with the laws of the Government of Mexico and the State Government of Baja California.

Interim Deliverable No. 2:

The Contractor shall prepare and submit to the Grantee an interim report detailing the findings from Task 2-4.

Task 5: Preliminary Environmental Impact Assessment

The Contractor shall conduct a preliminary review of the Project's environmental impact and environmental compliance with reference to local requirements and those of multilateral development banks (such as the World Bank and Inter-American Development Bank). This review shall identify potential negative impacts, discuss the extent to which they can be mitigated, and develop plans for a full environmental impact assessment in anticipation of the Project moving forward to the implementation stage. In particular, the Contractor shall identify any steps that the Grantee or other interested parties will need to undertake subsequent to the completion of the Study and prior to Project implementation.

While wind farm developers have the primary responsibility for completing full environmental impact assessments, the Contractor shall assess the environmental advantages of wind power as compared to the estimated generation matrix of the power supplied from the CFE grid.

Task 6: Regulatory Review

Subtask 6.1: Regulatory Provisions for Transmission Access and Capacity Payments

The Contractor shall verify that the proposed agreements between the Grantee and the wind power suppliers would qualify for regulatory provisions that favor renewable generation for transmission access and capacity payments.

Subtask 6.2: Tariff Filing

To assist the Grantee in filing for a tariff for renewable power wheeling over the CFE grid, the Contractor shall provide documentation and calculations in accordance with Mexico's legal framework and other economic and regulatory requirements. The Contractor shall use the financial analysis developed in Task 3 as a component of the tariff calculation.

Task 7: Development Impact Assessment

For the benefit of those interested in the Project, the Contractor shall assess the development benefits associated with the Project and the methodology for measuring those benefits. The assessment shall include examples of the development benefits that would be expected in the Host Country if the Project is implemented as outlined in the Study. The Contractor shall focus on examples from the categories listed below and shall develop a methodology for assessing these impacts over time. The Contractor shall only list benefits in the categories that are applicable to the Project. The categories to be considered are as follows:

- **Infrastructure:** The Contractor shall estimate the expected scale of infrastructure development and improvements, such as transmission and interconnection lines.
- **Market-Oriented Reforms:** The Contractor shall provide a description of any recommended regulations, laws, or institutional changes that would facilitate Project implementation, more transparent regulatory systems, or increased competition.
- **Human Capacity Building:** The Contractor shall estimate the number and type of jobs that would be created if the Project is implemented. Comment on any prospective training recommended (the training needed after and as a result of the Project), including an estimate of the number of persons to be trained, type of training needed, and the desired outcome of the training.
- **Technology Transfer and Productivity Enhancement:** The Contractor shall provide a description of any efficiency gains or productivity benefits resulting from Project implementation, as well as the introduction of any new technologies.
- **Other:** The Contractor shall identify any other developmental benefits of the Project that are not captured in the four categories listed above, including any

spin-off or demonstration effects such as enhanced economic growth, increased investment, or indirect job creation.

Task 8: U.S. Sources of Supply

The Contractor shall identify prospective U.S. suppliers of equipment and services for the Project in accordance with Clause I of Annex II of the Grant Agreement. The Contractor shall identify the potential value of U.S. exports of equipment and services and prepare a list of U.S. suppliers that outlines prospective U.S. sources for procurement of goods and services related to Project implementation. The list shall include business name, point of contact, address, telephone and fax numbers, and a general description of products and services that may be procured.

Task 9: Implementation Plan

The Contractor shall develop an implementation plan, including, but not limited to, schedules and timelines for all Project-related activities, contracts, agreements, staffing and training, regulatory consent, financing, and ownership and management decisions.

The Contractor's scope of responsibility ends with completion of the draft tender documents. If the Grantee requires further services for bid evaluation or subsequent design changes, the Grantee must negotiate separate payment for such services. The Contractor is not responsible for any work associated with publicizing the tender documents or evaluating proposals under any procurement-related activities for this Project.

Interim Deliverable No. 3:

The Contractor shall prepare and submit to the Grantee an interim report detailing the findings from Tasks 5-9.

Task 10: Final Report

The Contractor shall prepare and deliver to the Grantee and USTDA a substantive and comprehensive final report of all work performed under these Terms of Reference ("Final Report"). The Final Report shall be organized according to the above tasks, and shall include all deliverables and documents that have been provided to the Grantee. The Final Report shall be prepared in accordance with Clause I of Annex II of the Grant Agreement. The Final Report shall be prepared in English and Spanish.

Notes:

- (1) The Contractor is responsible for compliance with U.S. export licensing requirements, if applicable, in the performance of the Terms of Reference.
- (2) The Contractor and the Grantee shall be careful to ensure that the public version of the Final Report contains no security or confidential information.

- (3) The Grantee and USTDA shall have an irrevocable, worldwide, royalty-free, non-exclusive right to use and distribute the Final Report and all work product that is developed under these Terms of Reference.
- (4) The Grantee shall be responsible for all procurement-related final decisions.

ANNEX 6

COMPANY INFORMATION

A. Company Profile

Provide the information listed below relative to the Offeror's firm. If the Offeror is proposing to subcontract some of the proposed work to another firm(s), the information requested in sections E and F below must be provided for each subcontractor.

1. Name of firm and business address (street address only), including telephone and fax numbers:
2. Year established (include predecessor companies and year(s) established, if appropriate).
3. Type of ownership (e.g. public, private or closely held).
4. If private or closely held company, provide list of shareholders and the percentage of their ownership.
5. List of directors and principal officers (President, Chief Executive Officer, Vice-President(s), Secretary and Treasurer; provide full names including first, middle and last). Please place an asterisk (*) next to the names of those principal officers who will be involved in the Feasibility Study.
6. If Offeror is a subsidiary, indicate if Offeror is a wholly-owned or partially-owned subsidiary. Provide the information requested in items 1 through 5 above for the Offeror's parent(s).
7. Project Manager's name, address, telephone number, e-mail address and fax number.

B. Offeror's Authorized Negotiator

Provide name, title, address, telephone number, e-mail address and fax number of the Offeror's authorized negotiator. The person cited shall be empowered to make binding commitments for the Offeror and its subcontractors, if any.

C. Negotiation Prerequisites

1. Discuss any current or anticipated commitments which may impact the ability of the Offeror or its subcontractors to complete the Feasibility Study as proposed and reflect such impact within the project schedule.
2. Identify any specific information which is needed from the Grantee before commencing contract negotiations.

D. Offeror's Representations

Please provide exceptions and/or explanations in the event that any of the following representations cannot be made:

1. Offeror is a corporation [*insert applicable type of entity if not a corporation*] duly organized, validly existing and in good standing under the laws of the State of _____. The Offeror has all the requisite corporate power and authority to conduct its business as presently conducted, to submit this proposal, and if selected, to execute and deliver a contract to the Grantee for the performance of the Feasibility Study. The Offeror is not debarred, suspended, or to the best of its knowledge or belief, proposed for debarment, or ineligible for the award of contracts by any federal or state governmental agency or authority. The Offeror has included, with this proposal, a certified copy of its Articles of Incorporation, and a certificate of good standing issued within one month of the date of its proposal by the State of _____.
2. Neither the Offeror nor any of its principal officers have, within the three-year period preceding this RFP, been convicted of or had a civil judgment rendered against them for: commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a federal, state or local government contract or subcontract; violation of federal or state antitrust statutes relating to the submission of

offers; or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, tax evasion, violating federal or state criminal tax laws, or receiving stolen property.

3. Neither the Offeror, nor any of its principal officers, is presently indicted for, or otherwise criminally or civilly charged with, commission of any of the offenses enumerated in paragraph 2 above.
4. There are no federal or state tax liens pending against the assets, property or business of the Offeror. The Offeror, has not, within the three-year period preceding this RFP, been notified of any delinquent federal or state taxes in an amount that exceeds \$3,000 for which the liability remains unsatisfied. Taxes are considered delinquent if (a) the tax liability has been fully determined, with no pending administrative or judicial appeals; and (b) a taxpayer has failed to pay the tax liability when full payment is due and required.
5. The Offeror has not commenced a voluntary case or other proceeding seeking liquidation, reorganization or other relief with respect to itself or its debts under any bankruptcy, insolvency or other similar law. The Offeror has not had filed against it an involuntary petition under any bankruptcy, insolvency or similar law.

The selected Offeror shall notify the Grantee and USTDA if any of the representations included in its proposal are no longer true and correct at the time of its entry into a contract with the Grantee. USTDA retains the right to request an updated certificate of good standing from the selected Offeror.

Signed: _____
(Authorized Representative)

Print Name: _____

Title: _____

Date: _____

E. Subcontractor Profile

1. Name of firm and business address (street address only), including telephone and fax numbers.
2. Year established (include predecessor companies and year(s) established, if appropriate).

F. Subcontractor's Representations

If any of the following representations cannot be made, or if there are exceptions, the subcontractor must provide an explanation.

1. Subcontractor is a corporation *[insert applicable type of entity if not a corporation]* duly organized, validly existing and in good standing under the laws of the State of _____. The subcontractor has all the requisite corporate power and authority to conduct its business as presently conducted, to participate in this proposal, and if the Offeror is selected, to execute and deliver a subcontract to the Offeror for the performance of the Feasibility Study and to perform the Feasibility Study. The subcontractor is not debarred, suspended, or to the best of its knowledge or belief, proposed for debarment or ineligible for the award of contracts by any federal or state governmental agency or authority.
2. Neither the subcontractor nor any of its principal officers have, within the three-year period preceding this RFP, been convicted of or had a civil judgment rendered against them for: commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a federal, state or local government contract or subcontract; violation of federal or state antitrust statutes relating to the submission of offers; or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, tax evasion, violating federal or state criminal tax laws, or receiving stolen property.
3. Neither the subcontractor, nor any of its principal officers, is presently indicted for, or otherwise criminally or civilly charged with, commission of any of the offenses enumerated in paragraph 2 above.

4. There are no federal or state tax liens pending against the assets, property or business of the subcontractor. The subcontractor, has not, within the three-year period preceding this RFP, been notified of any delinquent federal or state taxes in an amount that exceeds \$3,000 for which the liability remains unsatisfied. Taxes are considered delinquent if (a) the tax liability has been fully determined, with no pending administrative or judicial appeals; and (b) a taxpayer has failed to pay the tax liability when full payment is due and required.
5. The subcontractor has not commenced a voluntary case or other proceeding seeking liquidation, reorganization or other relief with respect to itself or its debts under any bankruptcy, insolvency or other similar law. The subcontractor has not had filed against it an involuntary petition under any bankruptcy, insolvency or similar law.

The selected subcontractor shall notify the Offeror, Grantee and USTDA if any of the representations included in this proposal are no longer true and correct at the time of the Offeror's entry into a contract with the Grantee.

Signed: _____
(Authorized Representative)

Print Name: _____

Title: _____

Date: _____